Missouri Department Natural Resources
Division of Geology and Land Survey
P.O. Box 250
Rolla, Missouri 65402-0250
Phone - 573.368.2161 Fax - 573.368.2111
E-mail - gspgeol@dnr.mo.gov

oject ID Number
LWE12026
County
HOWELL

Geohydrologic Evaluation of Liquid-Waste Treatment Site

Project **Coastal Energy Corporation** Quadrangle **WILLOW SPRINGS SOUTH**

Location **SE1/4** Section **32** Township **27 N** Range **9 W**

Additional Location Information

Latitude **36** Deg **58** Min **17** Sec Longitude **91** Deg **57** Min **4** Sec

Owner Coastal Energy Corporation (417) 469-2777
PO Box 218 Willow Springs MO 65793

Requestor Heider Environmental Consulting (573) 445-3033
Curtis Heider
14 Bright Star Drive Columbia MO 65203

Previous Report ☑ Not Applicable
Date
Identification Number
Fiscal Year

Facility Type
- ○ Mechanical treatment plant
- ○ Recirculating filter bed
- ○ Earthen lagoon with discharge
- ○ Earthen holding basin
- ◉ Land application
- ○ Other type of facility

Type of Waste
- ○ Animal
- ○ Human
- ○ Process or industrial
- ○ Leachate
- ◉ Other waste type

Funding Source
- ◉ PPG
- ○ WWLF-SRF
- ○ Non-Point Source

Other Information
- ○ Plans were submitted
- ○ Site was investigated by NRCS
- ○ Soil or geotechnical data were submitted

Date of Field Visit 10/6/2011 **Stream Classification** ○ Gaining ○ Losing ◉ No discharge

Overall Geologic Limitations
- ○ Slight
- ○ Moderate
- ○ Severe

Collapse Potential
- ◉ Not applicable
- ○ Slight
- ○ Moderate
- ○ Severe

Topography
- ◉ < 4%
- ○ 4% to 8%
- ○ 8% to 15%
- ○ > 15%

Landscape Position
- ○ Broad uplands
- ○ Ridgetop
- ○ Hillslope
- ○ Narrow ravine
- ◉ Floodplain
- ○ Alluvial plain
- ○ Terrace
- ○ Sinkhole

Bedrock The upper-most bedrock is of Ordovician-age Jefferson City Dolomite.

Surficial Materials The surficial materials are approxmately 50 feet thick and composed of alluvial sediment ranging from clay to gravel

Recommended Construction Procedures

- ○ Installation of clay pad
- ○ Diversion of subsurface flow
- ○ Rock excavation
- ○ Compaction
- ○ Artificial sealing
- ○ Limit excavation depth

Required Geologic Exploration

(Missouri Clean Water Commission - 10 CSR 20 - 8.200 Wastewater Treatment Ponds)

Determine Overburden Properties

- ○ Partical size analysis
- ○ Standard Proctor density
- ○ Permeability coefficient for undisturbed sample
- ○ Atterburg limits
- ○ Overburden thickness
- ○ Permeability coefficient for remolded sample

Determine Hydrologic Conditions

- ○ Groundwater elevation
- ○ Direction of groundwater flow
- ○ 25-year flood level
- ○ 100-year flood level

Notify Geologist

- ○ Before exploration
- ○ During constructio
- ○ After construction
- ◉ Not necessary

Remarks

On October 6, 2011, a geohydrologic evaluation was conducted by Christopher Vierrether of the Missouri Geological Survey Program per the request of Mr. Curtis Helder of Heider Environmental Consulting for the proposed land application of storm water containment collection. The goal of this evaluation is to determine the geologic and hydrologic elements of the site as they relate to the facility's construction and the potential for groundwater contamination in the event that treatment failure occurs. The proposed application area is composed of a pastured forty-acre tract located on the Willow Springs South 7.5' Quadrangle in the SE¼, section 32, T. 27 N., R. 9 W., Howell County, Missouri

The upper-most bedrock is of Ordovician-age Jefferson City Dolomite. This unit is composed of fine to medium crystalline dolomite with interbedded sandstone. Nodular chert is sporadically present in the dolomite. The presence of a losing stream and numerous sinkholes in the area indicates the site is situated in a karst environment and the Jefferson City Dolomite has a high permeability in this vicinity.

The surficial materials have a total thickness of about 50 feet and appear to be composed of alluvial sediments ranging in size from clay to gravel. The upper surficial materials are dominated by silty clay to clay which is probably underlain by coarser alluvial materials. Based on the high volume of coarser materials typically associated with an alluvial setting, these surficial materials are likely to have a high permeability.

The 40-acre pastured site is situated in the floodplain of the Eleven Point River. Numerous sinkholes surrounding the area, and the losing streams (Eleven Point River and an unnamed tributary) that bound the site, strongly suggest the presence of karst. The southern portion of the site appeared hummocky and low areas contained throats, suggesting the presence of sinkholes in this area. The northern portion does not display the hummocky landscape or throats present in the southern portion. However, effluent applied to both areas will likely experience rapid vertical migration and infiltration.

Based on the geologic and hydrologic characteristics observed during the visit, the 40-acre tract should be split into two different land application sites. The southern portion contains evidence of active sinkhole formation. Land application on this site would allow effluent to quickly migrate into the underlying bedrock and regional water supply. The northern portion tract does not display active sinkhole formation and appears suitable for land application of effluent. If treatment of the waste should fail, the effluent could impact the regional water supply.

This document is a preliminary report. It is not a permit. Additional data may be required by the Department of Natural Resources prior to the issuance of a permit. This report is valid only at the above location and becomes invalid one year after the report date below.

Report By: Chris Vierrether

Report Date: 11/28/2011

CC SERO; WPP

STATE OF MISSOURI
CHRISTOPHER B. VIERRETHER
RG0105
REGISTERED GEOLOGIST

Due 1-28-13
1-28-13

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM – WATER POLLUTION BRANCH

ANNUAL OPERATIONS AND MAINTENANCE REPORT

MAIL TO: **MISSOURI DEPARTMENT OF NATURAL RESOURCES, SOUTHEAST REGIONAL OFFICE**
2155 NORTH WESTWOOD BLVD
POPLAR BLUFF, MO 63901

ANNUAL REPORT DUE:
JANUARY 28TH

PERMIT NUMBER	COUNTY	THIS REPORT COVERS YEAR:
MO-0136883	**HOWELL**	**JANUARY 1, 2012 through DECEMBER 31, 2012**

FACILITY NAME	PHONE #:	FACILITY ADDRESS
COASTAL ENERGY CORP.	417-469-2777	1 Coastal Drive, Willow Springs, MO 65793

OWNER NAME	PHONE #:	OWNER ADDRESS
Coastal Energy Corporation	417-469-2777	P.O. Box 218, Willow Springs, MO 65793

Note 2 – Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period. The report shall include the following:

(a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

(b) The number of days the facility discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed.

There was no discharge during 2012 and thus no irrigation occurred due to rainfall being below normal throughout the year. Rainfall records for 2012 are attached. Since the irrigation system was not used, no maintenance or repairs were needed.

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JAN 25 2013
By

REPORT COMPLETED BY	DATE
Curtis Heider, Consultant Curtis Heider	1/15/2013
SIGNATURE OF OWNER OR DESIGNEE APPROVING REPORT Gary Pierce	DATE 1/18/13

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** January , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER **NO IRRIGATED STORMWATER FOR MONTH:** ☒

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pucard	2/1/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
Robert Hostetter	1/9/13	Same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF: February , 20 12**

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH: ☒**

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pierce	3/1/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/9/13	Same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF: March , 20 12**

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER **NO IRRIGATED STORMWATER FOR MONTH: ☒**

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pucci	1/2/12	417-469-2700	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
Dave Montgomery	1/9/13	same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: April , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER

NO IRRIGATED STORMWATER FOR MONTH: ☒

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JAN 25 2013

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pruett	3/1/12	417-469-2777	gary@coastal-finc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/9/13	Same	david@coastal-finc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: May , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER

NO IRRIGATED STORMWATER FOR MONTH: X

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pruett	6/1/12	417-469-2700	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/9/13	Same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: June , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pursell	7/2/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
Robert Montgomery	1/9/13	Same	Jan@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** July , 20 12

DUE BY: JANUARY 28TH

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pursaw	8/6/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/9/13	Same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: August , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
[signature]	9/4/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
[signature]	1/9/13	same	gary@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: September , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Greene	10/1/12	417-465-2799	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
David Montgomery	1/9/13	same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: October , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pucene	11/1/12	417-469-2779	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/9/13	Same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

ILM/A 1/7/12

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: November **, 20** 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO
SAMPLES COLLECTED BY		ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER — **NO IRRIGATED STORMWATER FOR MONTH:** ☑

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
[signature]	12/3/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
[signature]	1/9/13	Same	david@coastal-fmc.com

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Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

ILN 12/12

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: December , 20 12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ☒

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
No.of Samp.								
Tot of Samp.								
Monthly Avg.								
Daily Max.								

RECEIVED
JAN 25 2013
By

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pierce	1/2/13	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
Howard Montgomery	1/9/13	same	hmont@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	January 20 12		February 20 12		March 20 12	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21					4/10"	0
22						
23					1/10"	C
24						
25						
26						
27						
28						
29						
30						
31						
No.of Samp.						
Tot of Samp.						
Daily Max.						

OUTFALL: 002

January 20 12		February 20 12		March 20 12	
Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
				4/10"	0
				1/10"	0

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pierce	4/2/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
Robert Montgomery	1/9/13	Same	davide coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

1A 2A M A 4/12 5/12 6/12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	April 20 12		May 20 12		June 20 12	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1						
2						
3						
4						
5						
6						
7	3/10"	0				
8						
9						
10						
11					1"	0
12						
13	3/10"	0				
14	1 3/10"	0				
15	1 1/4"	0				
16						
17					3/10"	0
18						
19						
20	1/10"	0	1"	0		
21						
22						
23						
24						
25						
26						
27						
28						
29	1/10"	0	1/2"	0		
30	1/2"	0	3/10"	0		
31			1/4"	0		
No.of Samp.						
Tot of Samp.						
Daily Max.						

OUTFALL: 002

DAY	April 20 12		May 20 12		June 20 12	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1						
2						
3						
4						
5						
6						
7	3/10"	0				
8						
9						
10						
11					1"	0
12						
13	3/10"	0				
14	1 3/10"	0				
15	1 1/4"	0				
16						
17					3/10"	0
18						
19						
20	1/10"	0	1"	0		
21						
22						
23						
24						
25						
26						
27						
28						
29	1/10"	0	1/2"	0		
30	1/2"	0	3/10"	0		
31			1/4"	0		
No.of Samp.						
Tot of Samp.						
Daily Max.						

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pearce	6/1/12	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
Robert Montgomery	1/9/13	same	David@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

1A 2A | m A | 7/12 | 8/12 | 9/12

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	July 20 12		August 20 12		September 20 12	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1					1/4"	0
2						
3						
4			3/4"	0		
5						
6	1/10"	0				
7					1 1/4"	0
8	4/10"	0				
9						
10						
11						
12						
13						
14					1/2"	0
15					1"	0
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26					1 1/10"	0
27			8/10"	0	1 1/10"	0
28					1/2"	0
29						
30						
31			2 1/4"	0		
No.of Samp.						
Tot of Samp.						
Daily Max.						

OUTFALL: 002

DAY	July 20 12		August 20 12		September 20 12	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1					1/4"	0
2						
3						
4			3/4"	0		
5						
6	1/10"	0				
7					1 1/4"	0
8	4/10"	0				
9						
10						
11						
12						
13						
14					1/2"	0
15					1"	0
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26					1 1/10"	0
27			8/10"	0	1 1/10"	0
28					1/2"	0
29						
30						
31			2 1/4"	0		
No.of Samp.						
Tot of Samp.						
Daily Max.						

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Lucas	9/14/12	417-466-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/9/13	same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

1A) M/12 10/12 11/12 12/12
2A)

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	October 2012 Rainfall Inches DAILY	October 2012 Volume Pumped Gallons DAILY	November 2012 Rainfall Inches DAILY	November 2012 Volume Pumped Gallons DAILY	December 2012 Rainfall Inches DAILY	December 2012 Volume Pumped Gallons DAILY
1						
2						
3						
4					3/10"	0
5	1/2"		3/10"	0		
6						
7						
8						
9					1 1/4"	0
10						
11	1/2"	0	1"	0		
12						
13	1 1/10	0			1/10	0
14					3/10	0
15						
16						
17	4/10"	0				
18					3/10	0
19					1/2	0
20						
21						
22			3/10"	0		
23	3/10"	0				
24						
25	1/2"	0				
26						
27					1/10	0
28						
29						
30					4/10	0
31						
No.of Samp.						
Tot of Samp.						
Daily Max.						

OUTFALL: 002

DAY	October 2012 Rainfall Inches DAILY	October 2012 Volume Pumped Gallons DAILY	November 2012 Rainfall Inches DAILY	November 2012 Volume Pumped Gallons DAILY	December 2012 Rainfall Inches DAILY	December 2012 Volume Pumped Gallons DAILY
1						
2						
3						
4					3/10"	0
5	1/2"		3/10"	0		
6						
7						
8						
9					1 1/4"	0
10						
11	1/2"	0	1"	0		
12						
13	1 1/10	0			1/10	0
14					3/10	0
15						
16						
17	4/10"	0				
18					3/10	0
19					1/2	0
20						
21						
22			3/10"	0		
23	3/10"	0				
24						
25	1/2"	0				
26						
27					1/10	0
28						
29						
30					4/10	0
31						
No.of Samp.						
Tot of Samp.						
Daily Max.						

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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pucino	1/2/13	417-469-2777	gary@coastal-fmc.com
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
Howard Montgomery	1/9/13	Same	david@coastal-fmc.com

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

Due 1-28-14
1-30-14

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM – WATER POLLUTION BRANCH

ANNUAL OPERATIONS AND MAINTENANCE REPORT

MAIL TO: MISSOURI DEPARTMENT OF NATURAL RESOURCES, SOUTHEAST REGIONAL OFFICE 2155 NORTH WESTWOOD BLVD POPLAR BLUFF, MO 63901	ANNUAL REPORT DUE: JANUARY 28TH

PERMIT NUMBER	COUNTY	THIS REPORT COVERS YEAR:
MO-0136883	HOWELL	JANUARY 1, 2013 through DECEMBER 31, 2013

FACILITY NAME	PHONE #:	FACILITY ADDRESS
COASTAL ENERGY CORP.	417-469-2777	1 Coastal Drive, Willow Springs, MO

OWNER NAME	PHONE #:	OWNER ADDRESS
Coastal Energy Corp.	417-469-2777	P.O. Box 218, Willow Springs, MO 65793

Note 2 – Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period. The report shall include the following:

(a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

(b) The number of days the facility discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed.

There was no discharge during 2013 and thus no irrigation occurred. Rainfall records for 2013 are attached. Since the irrigation system was not used, no maintenance or repairs were needed.

REPORT COMPLETED BY	DATE
Curtis Heider, Consultant Curtis Heider	1/16/14

SIGNATURE OF OWNER OR DESIGNEE APPROVING REPORT	DATE
David Montgomery	1/22/2014

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JAN 27 2014
By

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	January 2013		February 2013		March 2013	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1	.02	0	.01	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	.1	0	0	0
5	0	0	0	0	.01	0
6	0	0	0	0	0	0
7	0	0	.4	0	0	0
8	.12	0	0	0	0	0
9	.05	0	.01	0	0	0
10	.51	0	.63	0	1.2	0
11	.22	0	0	0	.01	0
12	1.65	0	0	0	0	0
13	.02	0	.14	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0
17	0	0	0	0	.54	0
18	0	0	.29	0	.16	0
19	0	0	0	0	0	0
20	0	0	0	0	.3	0
21	0	0	.02	0	0	0
22	0	0	.52	0	.25	0
23	0	0	.22	0	.04	0
24	0	0	.01	0	.23	0
25	0	0	1.06	0	0	0
26	0	0	.49	0	0	0
27	.05	0	0	0	0	0
28	.01	0	0	0	0	0
29	1.35	0			.09	0
30	.24	0			0	0
31	0	0			.01	0
No. of Samp.						
Tot. of Samp.						
Daily Max.						

OUTFALL: 002

DAY	January 2013		February 2013		March 2013	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1	.02	0	.01	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	.01	0	0	0
5	0	0	0	0	.01	0
6	0	0	0	0	0	0
7	0	0	.4	0	0	0
8	.12	0	0	0	0	0
9	.05	0	.01	0	0	0
10	.51	0	.63	0	1.2	0
11	.22	0	0	0	.01	0
12	1.65	0	0	0	0	0
13	.02	0	.14	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0
17	0	0	0	0	.54	0
18	0	0	.29	0	.16	0
19	0	0	0	0	0	0
20	0	0	0	0	.3	0
21	0	0	.02	0	0	0
22	0	0	.52	0	.25	0
23	0	0	.22	0	.04	0
24	0	0	.01	0	.23	0
25	0	0	1.06	0	0	0
26	0	0	.49	0	0	0
27	.05	0	0	0	0	0
28	.01	0	0	0	0	0
29	1.35	0			.09	0
30	.24	0			0	0
31	0	0			.01	0
No. of Samp.						
Tot. of Samp.						
Daily Max.						

Signature and Title of Individual Preparing Report: David Riccio	Date: 2/6/14	Phone Number: 417-469-2777	Email Address:
Signature of Owner or Designee Approving Report: David Montgomery	Date: 2/27/14	Phone Number: 417-469-2777	Email Address:

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

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JAN 27 2014

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	April 2013		May 2013		June 2013	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1	0	0	0	0	1.35	0
2	.03	0	.68	0	0	0
3	0	0	.61	0	0	0
4	0	0	.02	0	.01	0
5	0	0	.21	0	.19	0
6	0	0	.08	0	0	0
7	0	0	.09	0	0	0
8	.04	0	0	0	0	0
9	0	0	.07	0	.09	0
10	1.19	0	.02	0	0	0
11	.01	0	.01	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	.07	0	.03	0
17	0	0	.13	0	.02	0
18	.88	0	0	0	.01	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	0	.53	0	0	0
22	0	0	0	0	.11	0
23	.03	0	0	0	0	0
24	.87	0	0	0	0	0
25	0	0	0	0	0	0
26	1.14	0	0	0	0	0
27	.71	0	0	0	0	0
28	0	0	0	0	.27	0
29	0	0	0	0	0	0
30	0	0	.19	0	.08	0
31			.8	0		
No. of Samp.						
Tot. of Samp.						
Daily Max.						

OUTFALL: 002

DAY	April 2013		May 2013		June 2013	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1	0	0	0	0	1.35	0
2	.03	0	.68	0	0	0
3	0	0	.61	0	0	0
4	0	0	.02	0	.01	0
5	0	0	.21	0	.19	0
6	0	0	.08	0	0	0
7	0	0	.09	0	0	0
8	.04	0	0	0	0	0
9	0	0	.07	0	.09	0
10	1.19	0	.02	0	0	0
11	.01	0	.01	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	.07	0	.03	0
17	0	0	.13	0	.02	0
18	.88	0	0	0	.01	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	0	.53	0	0	0
22	0	0	0	0	.11	0
23	.03	0	0	0	0	0
24	.87	0	0	0	0	0
25	0	0	0	0	0	0
26	1.14	0	0	0	0	0
27	.71	0	0	0	0	0
28	0	0	0	0	.27	0
29	0	0	0	0	0	0
30	0	0	.19	0	.08	0
31			.8	0		
No. of Samp.						
Tot. of Samp.						
Daily Max.						

Signature and Title of Individual Preparing Report	Date 1/22/14	Phone Number 417-469-2777	Email Address
Signature of Owner or Designee Approving Report	Date 1/22/14	Phone Number 417-469-2777	Email Address

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd, Poplar Bluff, MO 63901

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	July 2013		August 2013		September 2013	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1	.01	0	0	0	.07	0
2	0	0	0	0	0	0
3	0	0	.56	0	0	0
4	0	0	.13	0	0	0
5	.21	0	1.68	0	0	0
6	.01	0	2.62	0	0	0
7	0	0	.16	0	0	0
8	0	0	1	0	0	0
9	0	0	.05	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	1.23	0
12	0	0	0	0	.08	0
13	0	0	0	0	0	0
14	.04	0	0	0	0	0
15	.11	0	0	0	0	0
16	.01	0	0	0	0	0
17	0	0	0	0	0	0
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	0	0	0	0	.26	0
21	1.71	0	0	0	0	0
22	1.19	0	0	0	0	0
23	.5	0	0	0	0	0
24	0	0	0	0	0	0
25	0	0	0	0	0	0
26	.16	0	0	0	0	0
27	0	0	0	0	0	0
28	0	0	0	0	.07	0
29	0	0	0	0	.23	0
30	1.15	0	0	0	.01	0
31	0	0	0	0	.01	0
No. of Samp.						
Tot. of Samp.						
Daily Max.						

OUTFALL: 002

DAY	July 2013		August 2013		September 2013	
	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY	Rainfall Inches DAILY	Volume Pumped Gallons DAILY
1	.01	0	0	0	.07	0
2	0	0	0	0	0	0
3	0	0	.56	0	0	0
4	0	0	.13	0	0	0
5	.21	0	1.68	0	0	0
6	.01	0	2.62	0	0	0
7	0	0	.16	0	0	0
8	0	0	1	0	0	0
9	0	0	.05	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	1.23	0
12	0	0	0	0	.08	0
13	0	0	0	0	0	0
14	.04	0	0	0	0	0
15	.11	0	0	0	0	0
16	.01	0	0	0	0	0
17	0	0	0	0	0	0
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	0	0	0	0	.26	0
21	1.71	0	0	0	0	0
22	1.19	0	0	0	0	0
23	.5	0	0	0	0	0
24	0	0	0	0	0	0
25	0	0	0	0	0	0
26	.16	0	0	0	0	0
27	0	0	0	0	0	0
28	0	0	0	0	.07	0
29	0	0	0	0	.23	0
30	1.15	0	0	0	.01	0
31			0	0	.01	0
No. of Samp.						
Tot. of Samp.						
Daily Max.						

Signature and Title of Individual Preparing Report: [signature]	Date: 1/22/14	Phone Number: 417-469-2777	Email Address:
Signature of Owner or Designee Approving Report: [signature]	Date: 1/24/14	Phone Number: 417-469-2777	Email Address:

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd., Poplar Bluff, MO 63901

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By

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

OUTFALL: 001

DAY	October 2013 Rainfall Inches DAILY	October 2013 Volume Pumped Gallons DAILY	November 2013 Rainfall Inches DAILY	November 2013 Volume Pumped Gallons DAILY	December 2013 Rainfall Inches DAILY	December 2013 Volume Pumped Gallons DAILY
1	.01	0	.01	0	0	0
2	0	0	0	0	0	0
3	.04	0	0	0	.01	0
4	.01	0	.11	0	0	0
5	.75	0	.28	0	.15	0
6	.05	0	1.14	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	.01	0	0	0	.01	0
11	.01	0	0	0	.11	0
12	1.02	0	0	0	.12	0
13	0	0	0	0	.01	0
14	.02	0	0	0	.13	0
15	.23	0	.18	0	.09	0
16	.27	0	.01	0	.01	0
17	.03	0	.7	0	0	0
18	.11	0	0	0	0	0
19	.11	0	0	0	0	0
20	.01	0	0	0	.05	0
21	.02	0	1.48	0	2.12	0
22	.01	0	0	0	.01	0
23	0	0	0	0	0	0
24	0	0	0	0	0	0
25	0	0	.01	0	0	0
26	0	0	.01	0	0	0
27	0	0	0	0	0	0
28	0	0	0	0	0	0
29	.47	0	0	0	0	0
30	.26	0	0	0	0	0
31	.07	0	0	0	0	0
No. of Samp.						
Tot of Samp.						
Daily Max.						

OUTFALL: 002

DAY	October 2013 Rainfall Inches DAILY	October 2013 Volume Pumped Gallons DAILY	November 2013 Rainfall Inches DAILY	November 2013 Volume Pumped Gallons DAILY	December 2013 Rainfall Inches DAILY	December 2013 Volume Pumped Gallons DAILY
1	.01	0	.01	0	0	0
2	0	0	0	0	0	0
3	.04	0	0	0	.01	0
4	.01	0	.11	0	0	0
5	.75	0	.28	0	.15	0
6	.05	0	1.14	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	.01	0	0	0	.01	0
11	.01	0	0	0	.11	0
12	1.02	0	0	0	.12	0
13	0	0	0	0	.01	0
14	.02	0	0	0	.13	0
15	.23	0	.18	0	.09	0
16	.27	0	.01	0	.01	0
17	.03	0	.7	0	0	0
18	.11	0	0	0	0	0
19	.11	0	0	0	0	0
20	.01	0	0	0	.05	0
21	.02	0	1.48	0	2.12	0
22	.01	0	0	0	.01	0
23	0	0	0	0	0	0
24	0	0	0	0	0	0
25	0	0	.01	0	0	0
26	0	0	.01	0	0	0
27	0	0	0	0	0	0
28	0	0	0	0	0	0
29	.47	0	0	0	0	0
30	.26	0	0	0	0	0
31	.07	0	0	0	0	0
No. of Samp.						
Tot of Samp.						
Daily Max.						

Signature and Title of Individual Preparing Report	Date	Phone Number	Email Address
Terry Weaver	2/2/14	417-469-2777	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
David Montgomery	2/4/14	417-469-2777	

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Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: Jan , 20 13

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO
SAMPLES COLLECTED BY		**ANALYSIS PERFORMED BY (LAB)**	**DATE**

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ~~X~~

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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Daily Max.								

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JAN 27 2014
By

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
[signature]	1/22/14	417/469-2799	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
[signature]	1/22/14	417/468/2099	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** Feb , 2013

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO
SAMPLES COLLECTED BY		**ANALYSIS PERFORMED BY (LAB)**	**DATE**

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ☒

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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BY

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
[signature]	1/27/14	469-2707	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
[signature]	1/27/14	469-2707	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: March , 2013

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH: ☒**

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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Daily Max.								

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BY

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Stan Pierce	1/22/14	417-469-2777	
Signature of Officer or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
David Montgomery	1/22/14	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** April , 2013

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH: ☒**

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Tony Tussing	1/22/14	417-469-2777	
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
Dan Montgomery	1/22/14	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** May , 2013

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER **NO IRRIGATED STORMWATER FOR MONTH: ☒**

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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Signature and Title of Individual Preparing Report:	Date: 1/22/14	Phone Number: 417-469-2777	Email Address:
Signature of Owner or Designee Approving Report:	Date: 1/22/14	Phone Number: 417-469-2777	Email Address:

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** June , 20 13

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER **NO IRRIGATED STORMWATER FOR MONTH: ☒**

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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BY

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
[signature]	1/22/14	417-469-2777	
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
[signature]	1/24	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** July , 2013

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO
SAMPLES COLLECTED BY		**ANALYSIS PERFORMED BY (LAB)**	**DATE**

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ☒

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Gary Pucket	1/22/14	417-469-3777	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
Glenn Montgomery	1/22/14	417-469-3777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: August **, 20**13

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO
SAMPLES COLLECTED BY		ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER — **NO IRRIGATED STORMWATER FOR MONTH:** ☑

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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JAN 27 2014
By ______

Signature and Title of Individual Preparing Report: [signature]	Date: 1/22/14	Phone Number: 417-465-2777	Email Address:
Signature of Owner or Designee Approving Report: [signature]	Date: 1/22/14	Phone Number: 417-469-2777	Email Address:

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: ~~Dec~~ Sept. , 20 13

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH: ☑**

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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RECEIVED
JAN 27 2014
By

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
	1/22/14	417-469-2777	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
	1/22/14	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** Oct , 2013

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ☒

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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JAN 27 2014
By

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Amy Pierce	1/22/14	417-469-2777	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
David Montgomery	1/22/14	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM
MONTHLY MONITORING RECORD

DUE BY: JANUARY 28TH

FOR THE MONTH OF: Nov , 20 13

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO

SAMPLES COLLECTED BY	ANALYSIS PERFORMED BY (LAB)	DATE

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ☑

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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RECEIVED
JAN 27 2014
By

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Tony Pierce	1/22/14	417-469-2777	
Signature of Owner or Designee Approving Report:	**Date:**	**Phone Number:**	**Email Address:**
David Montgomery	1/27/14	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER POLLUTION CONTROL PROGRAM

DUE BY: JANUARY 28TH

MONTHLY MONITORING RECORD **FOR THE MONTH OF:** Dec , 20 13

NAME OF FACILITY	PERMIT NUMBER	COUNTY	REGION
COASTAL ENERGY CORP.	MO-0136883	HOWELL	SERO
SAMPLES COLLECTED BY		**ANALYSIS PERFORMED BY (LAB)**	**DATE**

IRRIGATED STORMWATER | **NO IRRIGATED STORMWATER FOR MONTH:** ☒

DAY	VOLUME IRRIGATED GALLONS DAILY	APPLICATION AREA ACRES DAILY	APPLICATION RATE INCHES/ACRE DAILY	ETHYL-BENZEN mg/L Once/month	OIL & GREASE mg/L Once/month	PETROLEUM HYDRO., TOTAL mg/L Once/month	pH SU Once/month	ETHANOL mg/L Once/month
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RECEIVED
JAN 27 2014
By:

Signature and Title of Individual Preparing Report:	Date:	Phone Number:	Email Address:
Amy Pisano	1/22/14	417-469-2777	
Signature of Owner or Designee Approving Report:	Date:	Phone Number:	Email Address:
David Montgomery	1/22/14	417-469-2777	

Return form to: Missouri Department of Natural Resources, Southeast Regional Office, 2155 North Westwood Blvd. Poplar Bluff MO 63901

Coastal Energy
Howell Co.

AG

STATE OF MISSOURI

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

MAY 15 2014

Mr. & Mrs. Tom Kruzen
Ozark Riverkeeper and Stream Team #274
213 East 3rd Street
Mountain View, MO 65548

Dear Mr. & Mrs. Kruzen:

Thank you for your letter regarding the Coastal Energy Rail Spur located in Willow Springs. From your letter, I gathered you may not be aware of the water pollution permits associated with this facility, so following is a summary of the permitting history through the Department's Water Protection Program.

On December 6, 2010, the WPP issued a land disturbance permit, MO-R109FP2, authorizing the discharge of stormwater associated with land disturbance activities such as clearing and grading. This permit expired on March 7, 2012. On February 21, 2012, the WPP issued an additional land disturbance permit, MO-RA00246, for stormwater and certain non-stormwater discharges related to land disturbance activities. This permit is effective until February 7, 2017. The Master Land Disturbance permits can be found on the Department's website at http://dnr.mo.gov/env/wpp/permits/wpcpermits-stormwater.htm.

The facility is also currently permitted under a site-specific stormwater Missouri State Operating Permit (MSOP) MO-0136883. Prior to issuance, the draft MSOP MO-0136883 was placed on a 30-day Public Notice period, starting February 12, 2012 and ending March 18, 2012. According to the Department's records, no comments were received during this period. The final MSOP MO-0136883 was issued on March 21, 2012 and is effective until March 20, 2017. The site-specific MSOP MO-0136883 has been enclosed for your review.

The site-specific stormwater permit does not authorize the direct discharge of industrial stormwater but requires the collected stormwater be land applied. While there is not a secondary containment structure around each of the tanks, the entire facility is enclosed by an earthen berm that was designed to contain spills and all of the stormwater that falls on the site. Stormwater captured within the berm is pumped across the railroad spur to an additional containment structure where it typically evaporates. However, in the event that precipitation exceeds their containment capacity, the facility is also equipped with land application equipment that allows them to irrigate on property owned by the facility. Irrigated stormwater must meet limits prescribed by the operating permit. During severe precipitation events, the permittee is

authorized to conduct emergency discharge to ensure structural integrity of certain control measures at the site. This is only allowable during precipitation events that exceed the one-in-ten year or the 24-hour/25-year rainfall events. The facility has never reported a discharge of stormwater from the site.

In accordance with 10 CSR 20-6.200(1)(B)11, "facilities built to control the release of stormwater are not subject to the construction permitting requirements of 10 CSR 20-6.010(4), provided that the stormwater does not come in contact with process waste, process wastewater, or significant materials, and the stormwater is not a significant contributor of pollutants." Because the Department does not have the legal authority to require this facility to obtain a construction permit, no engineering plans and specifications or geohydrologic evaluations were required to be submitted to the Department during the construction of this facility. The regulations can be found on the Department's website at http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-20.

Our permitting processes are conducted under a legal framework provided by statute and regulation. The Elk River spill in Charleston, West Virginia that you mentioned in your letter has increased awareness of the potential risks associated with storing chemicals near waterways. Indeed, the spill has prompted discussions at the state and federal level. In fact, Congress is actively considering legislation, which might eventually provide regulatory agencies with additional tools to protect the environment. We are following these developments closely and will continue to do so.

Thank you again for your letter. If you have any questions regarding this letter or the WPP's permitting process, please contact Mr. Chris Wieberg, Section Chief of the Water Protection Program's Operating Permits Section, at P.O. Box 176, Jefferson City, MO 65102, by telephone at (573) 526-5781, or by email at chris.wieberg@dnr.mo.gov.

Sincerely,

DEPARTMENT OF NATURAL RESOURCES

Sara Parker Pauley
Director

Enclosures

c: Southeast Regional Office
Water Protection Program, Operating Permits Section

Missouri Department Of Natural Resources
Division of Geology and Land Survey
P.O. Box 250
Rolla, Missouri 65402-0250
Phone - 573.368.2161 Fax - 573.368.2111
E-mail - gspgeol@dnr.mo.gov

Project ID Number
LWE12026
County
HOWELL

Geohydrologic Evaluation of Liquid-Waste Treatment Site

Project: **Coastal Energy Corporation** Quadrangle: **WILLOW SPRINGS SOUTH**
Location: **SE1/4** Section **32** Township **27 N** Range **9 W**
Additional Location Information
Latitude **36** Deg **58** Min **17** Sec Longitude **91** Deg **57** Min **4** Sec

Owner Coastal Energy Corporation (417) 469-2777
PO Box 218 Willow Springs MO 65793

Requestor Heider Environmental Consulting
Curtis Heider (573) 445-3033
14 Bright Star Drive Columbia MO 65203

Previous Report ☑ Not Applicable
Date
Identification Number
Fiscal Year

Facility Type
- ○ Mechanical treatment plant
- ○ Recirculating filter bed
- ○ Earthen lagoon with discharge
- ○ Earthen holding basin
- ◉ Land application
- ○ Other type of facility

Type of Waste
- ○ Animal
- ○ Human
- ○ Process or Industrial
- ○ Leachate
- ◉ Other waste type

Funding Source
- ◉ PPG
- ○ WWLF-SRF
- ○ Non-Point Source

Other Information
- ○ Plans were submitted
- ○ Site was investigated by NRCS
- ○ Soil or geotechnical data were submitted

Date of Field Visit 10/6/2011 **Stream Classification** ○ Gaining ○ Losing ◉ No discharge

Overall Geologic Limitations
- ○ Slight
- ○ Moderate
- ○ Severe

Collapse Potential
- ◉ Not applicable
- ○ Slight
- ○ Moderate
- ○ Severe

Topography
- ◉ < 4%
- ○ 4% to 8%
- ○ 8% to 15%
- ○ > 15%

Landscape Position
- ○ Broad uplands
- ○ Ridgetop
- ○ Hillslope
- ○ Narrow ravine
- ◉ Floodplain
- ○ Alluvial plain
- ○ Terrace
- ○ Sinkhole

Bedrock The upper-most bedrock is of Ordovician-age Jefferson City Dolomite.

Surficial Materials The surficial materials are approxmately 50 feet thick and composed of alluvial sediment ranging from clay to gravel

Recommended Construction Procedures

- ○ Installation of clay pad
- ○ Diversion of subsurface flow
- ○ Rock excavation
- ○ Compaction
- ○ Artificial sealing
- ○ Limit excavation depth

Required Geologic Exploration

(Missouri Clean Water Commission - 10 CSR 20 - 8.200 Wastewater Treatment Ponds)

Determine Overburden Properties

- ○ Partical size analysis
- ○ Standard Proctor density
- ○ Permeability coefficient for undisturbed sample
- ○ Atterburg limits
- ○ Overburden thickness
- ○ Permeability coefficient for remolded sample

Determine Hydrologic Conditions

- ○ Groundwater elevation
- ○ Direction of groundwater flow
- ○ 25-year flood level
- ○ 100-year flood level

Notify Geologist

- ○ Before exploration
- ○ During constructio
- ○ After construction
- ◉ Not necessary

Remarks

On October 6, 2011, a geohydrologic evaluation was conducted by Christopher Vierrether of the Missouri Geological Survey Program per the request of Mr. Curtis Heider of Heider Environmental Consulting for the proposed land application of storm water containment collection. The goal of this evaluation is to determine the geologic and hydrologic elements of the site as they relate to the facility's construction and the potential for groundwater contamination in the event that treatment failure occurs. The proposed application area is composed of a pastured forty-acre tract located on the Willow Springs South 7.5' Quadrangle in the SE¼, section 32, T. 27 N., R. 9 W., Howell County, Missouri

The upper-most bedrock is of Ordovician-age Jefferson City Dolomite. This unit is composed of fine to medium crystalline dolomite with interbedded sandstone. Nodular chert is sporadically present in the dolomite. The presence of a losing stream and numerous sinkholes in the area indicates the site is situated in a karst environment and the Jefferson City Dolomite has a high permeability in this vicinity.

The surficial materials have a total thickness of about 50 feet and appear to be composed of alluvial sediments ranging in size from clay to gravel. The upper surficial materials are dominated by silty clay to clay which is probably underlain by coarser alluvial materials. Based on the high volume of coarser materials typically associated with an alluvial setting, these surficial materials are likely to have a high permeability.

The 40-acre pastured site is situated in the floodplain of the Eleven Point River. Numerous sinkholes surrounding the area, and the losing streams (Eleven Point River and an unnamed tributary) that bound the site, strongly suggest the presence of karst. The southern portion of the site appeared hummocky and low areas contained throats, suggesting the presence of sinkholes in this area. The northern portion does not display the hummocky landscape or throats present in the southern portion. However, effluent applied to both areas will likely experience rapid vertical migration and infiltration.

Based on the geologic and hydrologic characteristics observed during the visit, the 40-acre tract should be split into two different land application sites. The southern portion contains evidence of active sinkhole formation. Land application on this site would allow effluent to quickly migrate into the underlying bedrock and regional water supply. The northern portion tract does not display active sinkhole formation and appears suitable for land application of effluent. If treatment of the waste should fail, the effluent could impact the regional water supply.

This document is a preliminary report. It is not a permit. Additional data may be required by the Department of Natural Resources prior to the issuance of a permit. This report is valid only at the above location and becomes invalid one year after the report date below.

Report By: Chris Vierrether

Report Date: 11/28/2011

CC SERO; WPP

U.S. ENVIRONMENTAL PROTECTION AGENCY
SPCC FIELD INSPECTION AND PLAN REVIEW CHECKLIST

Coastal Energy Corporation, Willow Springs, Missouri

Overview of the Checklist

This checklist is designed to assist EPA inspectors in conducting a thorough and nationally consistent inspection of a facility's compliance with the Spill Prevention, Control, and Countermeasure (SPCC) rule at 40 CFR part 112. It is a required tool to help federal inspectors (or their contractors) record observations for the site inspection and review of the SPCC Plan. While the checklist is meant to be comprehensive, the inspector should always refer to the SPCC rule in its entirety, the SPCC Regional Inspector Guidance Document, and other relevant guidance for evaluating compliance. This checklist must be completed in order for an inspection to count toward an agency measure (i.e., OEM inspection measures or GPRA). The completed checklist and supporting documentation (i.e. photo logs or additional notes) serve as the inspection report.

This checklist addresses requirements for onshore facilities including Tier II Qualified Facilities (excluding facilities involved in oil drilling, production and workover activities) that meet the eligibility criteria set forth in §112.3(g)(2).

Qualified facilities must meet the rule requirements in §112.6 and other applicable sections specified in §112.6, except for deviations that provide environmental equivalence and secondary containment impracticability determinations as allowed under §112.6.

The checklist is organized according to the SPCC rule. Each item in the checklist identifies the relevant section and paragraph in 40 CFR part 112 where that requirement is stated.

- Sections 112.1 through 112.5 specify the applicability of the rule and requirements for the preparation, implementation, and amendment of SPCC Plans. For these sections, the checklist includes data fields to be completed, as well as several questions with "yes," "no" or "NA" answers.
- Section 112.6 includes requirements for qualified facilities. These provisions are addressed in Attachment D.
- Section 112.7 includes general requirements that apply to all facilities (unless otherwise excluded).
- Sections 112.8 and 112.12 specify requirements for spill prevention, control, and countermeasures for onshore facilities (excluding production facilities).

The inspector needs to evaluate whether the requirement is addressed adequately or inadequately in the SPCC Plan and whether it is implemented adequately in the field (either by field observation or record review). For the SPCC Plan and implementation in the field, if a requirement is addressed adequately, mark the "Yes" box in the appropriate column. If a requirement is not addressed adequately, mark the "No" box. If a requirement does not apply to the particular facility or the question asked is not appropriate for the facility, mark as "NA". Discrepancies or descriptions of inspector interpretation of "No" vs. "NA" may be documented in the comments box subsequent to each section. If a provision of the rule applies only to the SPCC Plan, the "Field" column is shaded.

Space is provided throughout the checklist to record comments. Additional space is available as Attachment E at the end of the checklist. Comments should remain factual and support the evaluation of compliance.

Attachments

- Attachment A is for recording information about containers and other locations at the facility that require secondary containment.
- Attachment B is a checklist for documentation of the tests and inspections the facility operator is required to keep with the SPCC Plan.
- Attachment C is a checklist for oil spill contingency plans following 40 CFR 109. Unless a facility has submitted a Facility Response Plan (FRP) under 40 CFR 112.20, a contingency plan following 40 CFR 109 is required if a facility determines that secondary containment is impracticable as provided in 40 CFR 112.7(d). The same requirement for an oil spill contingency plan applies to the owner or operator of a facility with qualified oil-filled operational equipment that chooses to implement alternative requirements instead of general secondary containment requirements as provided in 40 CFR 112.7(k).
- Attachment D is a checklist for Tier II Qualified Facilities.
- Attachment E is for recording additional comments or notes.
- Attachment F is for recording information about photos.

FACILITY INFORMATION			
FACILITY NAME: Coastal Energy Corporation			
LATITUDE: 36.975715	LONGITUDE: -91.952543	GPS DATUM: WGS84	
Section/Township/Range: NE1/4, S32, T27N, R9W	FRS#/OIL DATABASE ID:	ICIS#:	
ADDRESS: 232 Burnham Road			
CITY: Willow Springs	STATE: MO	ZIP: 65793	COUNTY: Howell
MAILING ADDRESS (IF DIFFERENT FROM FACILITY ADDRESS – IF NOT, PRINT "SAME"): PO Box 218			
CITY:	STATE:	ZIP:	COUNTY:
TELEPHONE: 417-469-2777	FACILITY CONTACT NAME/TITLE: Gary Picard, Safety Officer		
OWNER NAME: Coastal Energy Corp.			
OWNER ADDRESS: PO Box 218, 1 Coastal Drive			
CITY: Willow Springs	STATE: MO	ZIP: 65793	COUNTY: Howell
TELEPHONE: 417-469-2777	FAX:	EMAIL:	
FACILITY OPERATOR NAME (IF DIFFERENT FROM OWNER – IF NOT, PRINT "SAME"): same			
OPERATOR ADDRESS: same			
CITY:	STATE:	ZIP:	COUNTY:
TELEPHONE:	OPERATOR CONTACT NAME/TITLE:		
FACILITY TYPE: ethanol, liquid asphalt, fuel oil, polymer storage			SIC CODE: 1422
HOURS PER DAY FACILITY ATTENDED: 10-12 hrs/day		TOTAL FACILITY CAPACITY: 2,812,000 gallons	
TYPE(S) OF OIL STORED: ethanol, liquid asphalt, fuel oil			
LOCATED IN INDIAN COUNTRY? ☐ YES ☑ NO RESERVATION NAME:			
INSPECTION/PLAN REVIEW INFORMATION			
PLAN REVIEW DATE: 2/14/2014	REVIEWER NAME: Paul Doherty		
INSPECTION DATE: 2/10/2014	TIME: 11:00 AM	ACTIVITY ID NO:	
LEAD INSPECTOR: Paul Doherty			
OTHER INSPECTOR(S): Heath Smith			
INSPECTION ACKNOWLEDGMENT			
I performed an SPCC inspection at the facility specified above.			
INSPECTOR SIGNATURE:			DATE: 2/18/2014
SUPERVISOR REVIEW/SIGNATURE:			DATE: 2/19/14

SPCC GENERAL APPLICABILITY—40 CFR 112.1

IS THE FACILITY REGULATED UNDER 40 CFR part 112?

The completely buried oil storage capacity is over 42,000 U.S. gallons, **OR** the aggregate aboveground oil storage capacity is over 1,320 U.S. gallons **AND** ☑ Yes ☐ No

The facility is a non-transportation-related facility engaged in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to its location could reasonably be expected to discharge oil into or upon the navigable waters of the United States ☑ Yes ☐ No

AFFECTED WATERWAY(S): Eleven Point River	DISTANCE: 200 feet

FLOW PATH TO WATERWAY: surface drainage to Eleven Point River located 200 feet north of tanks.

Note: The following storage capacity is not considered in determining applicability of SPCC requirements:

- *Equipment subject to the authority of the U.S. Department of Transportation, U.S. Department of the Interior, or Minerals Management Service, as defined in Memoranda of Understanding dated November 24, 1971, and November 8, 1993; Tank trucks that return to an otherwise regulated facility that contain only residual amounts of oil (EPA Policy letter)*
- *Completely buried tanks subject to all the technical requirements of 40 CFR part 280 or a state program approved under 40 CFR part 281;*
- *Underground oil storage tanks deferred under 40 CFR part 280 that supply emergency diesel generators at a nuclear power generation facility licensed by the Nuclear Regulatory Commission (NRC) and subject to any NRC provision regarding design and quality criteria, including but not limited to CFR part 50;*
- *Any facility or part thereof used exclusively for wastewater treatment (production, recovery or recycling of oil is not considered wastewater treatment); (This does not include other oil containers located at a wastewater treatment facility, such as generator tanks or transformers)*
- *Containers smaller than 55 U.S. gallons;*
- *Permanently closed containers (as defined in §112.2);*
- *Motive power containers(as defined in §112.2);*
- *Hot-mix asphalt or any hot-mix asphalt containers;*
- *Heating oil containers used solely at a single-family residence;*
- *Pesticide application equipment and related mix containers;*
- *Any milk and milk product container and associated piping and appurtenances; and*
- *Intra-facility gathering lines subject to the regulatory requirements of 49 CFR part 192 or 195.*

Does the facility have an SPCC Plan? ☑ Yes ☐ No

FACILITY RESPONSE PLAN (FRP) APPLICABILITY—40 CFR 112.20(f)

A non-transportation related onshore facility is required to prepare and implement an FRP as outlined in 40 CFR 112.20 if:

☐ The facility transfers oil over water to or from vessels and has a total oil storage capacity greater than or equal to 42,000 U.S. gallons, **OR**

☑ The facility has a total oil storage capacity of at least 1 million U.S. gallons, **AND** at least one of the following is true:

- ☐ The facility does not have secondary containment sufficiently large to contain the capacity of the largest aboveground tank plus sufficient freeboard for precipitation.
- ☑ The facility is located at a distance such that a discharge could cause injury to fish and wildlife and sensitive environments.
- ☐ The facility is located such that a discharge would shut down a public drinking water intake.
- ☐ The facility has had a reportable discharge greater than or equal to 10,000 U.S. gallons in the past 5 years.

Facility has FRP: ☐ Yes ☑ No ☐ NA	FRP Number:

Facility has a completed and signed copy of Appendix C, Attachment C-II, "Certification of the Applicability of the Substantial Harm Criteria." ☑ Yes ☐ No

Comments: The SPCC plan contains a signed Certification of Substantial Harm that erroneously concludes that a worst-case discharge would not threaten harm to fish, wildlife, and sensitive environments. The certification was based on the assumption that secondary containment would prevent a discharge to the Eleven Point River. The Eleven Point River is a nationally designated wild and scenic river and is located adjacent to, and within 200 feet of the bulk storage tanks. The facility was informed at the time of the inspection that regulations do not allow secondary containment to be taken into consideration when evaluating a worst-case discharge pathway.

SPCC TIER II QUALIFIED FACILITY APPLICABILITY—40 CFR 112.3(g)(2)

The aggregate aboveground oil storage capacity is 10,000 U.S. gallons or less **AND** ☐ Yes ☑ No

In the three years prior to the SPCC Plan self-certification date, or since becoming subject to the rule (if the facility has been in operation for less than three years), the facility has **NOT** had:

• A single discharge as described in §112.1(b) exceeding 1,000 U.S. gallons, OR	☐ Yes ☐ No,
• Two discharges as described in §112.1(b) each exceeding 42 U.S. gallons within any twelve-month period[1]	☐ Yes ☐ No

IF YES TO ALL OF THE ABOVE, THEN THE FACILITY IS A TIER I QUALIFIED FACILITY
SEE ATTACHMENT D FOR TIER I QUALIFIED FACILITY CHECKLIST

REQUIREMENTS FOR PREPARATION AND IMPLEMENTATION OF A SPCC PLAN—40 CFR 112.3

Date facility began operations: 2002

Date of initial SPCC Plan preparation: unknown	Current Plan version (date/number): December 2009

112.3(a)	**For facilities (except farms), including mobile or portable facilities:**	
	• In operation on or prior to November 10, 2011: Plan prepared and/or amended and fully implemented by **November 10, 2011**	☑ Yes ☐ No ☐ NA
	• Beginning operations after November 10, 2011, Plan prepared and fully implemented before beginning operations	☐ Yes ☐ No ☑ NA
	For farms (as defined in §112.2):	
	• In operation on or prior to August 16, 2002: Plan maintained, amended and implemented by **May 10, 2013**	☐ Yes ☐ No ☑ NA
	• Beginning operations after August 16, 2002 through May 10, 2013: Plan prepared and fully implemented by **May 10, 2013**	☐ Yes ☐ No ☑ NA
	• Beginning operations after May 10, 2013: Plan prepared and fully implemented before beginning operations	☐ Yes ☐ No ☑ NA
112.3(d)	Plan is certified by a registered Professional Engineer (PE) and includes statements that the PE attests:	☑ Yes ☐ No ☐ NA
	• PE is familiar with the requirements of 40 CFR part 112	☑ Yes ☐ No ☐ NA
	• PE or agent has visited and examined the facility	☐ Yes ☑ No ☐ NA
	• Plan is prepared in accordance with good engineering practice including consideration of applicable industry standards and the requirements of 40 CFR part 112	☐ Yes ☑ No ☐ NA
	• Procedures for required inspections and testing have been established	☐ Yes ☑ No ☐ NA
	• Plan is adequate for the facility	☐ Yes ☑ No ☐ NA

PE Name: Russell Doss	License No.: E-28272	State: M)	Date of certification: 12/16/2009

112.3(e)(1)	Plan is available onsite if attended at least 4 hours per day. If facility is unattended, Plan is available at the nearest field office. *(Please note nearest field office contact information in comments section below.)*	☑ Yes ☐ No ☐ NA

Comments: The PE Certification statement is deficient as it does not address all the requirements for a PE Certification Statement

AMENDMENT OF SPCC PLAN BY REGIONAL ADMINISTRATOR (RA)—40 CFR 112.4

112.4(a),(c)	Has the facility discharged more than 1,000 U.S. gallons of oil in a single reportable discharge or more than 42 U.S. gallons in each of two reportable discharges in any 12-month period?[3]	☐ Yes ☑ No
If YES	• Was information submitted to the RA as required in §112.4(a)?[4]	☐ Yes ☐ No ☑ NA
	• Was information submitted to the appropriate agency or agencies in charge of oil pollution control activities in the State in which the facility is located§112.4(c)	☐ Yes ☐ No ☑ NA
	• Date(s) and volume(s) of reportable discharges(s) under this section: _____	
	• Were the discharges reported to the NRC[5]?	☐ Yes ☑ No

[1] Oil discharges that result from natural disasters, acts of war, or terrorism are not included in this determination. The gallon amount(s) specified (either 1,000 or 42) refers to the amount of oil that actually reaches navigable waters or adjoining shorelines not the total amount of oil spilled. The entire volume of the discharge is oil for this determination.

[2] An owner/operator who self-certifies a Tier II SPCC Plan may include environmentally equivalent alternatives and/or secondary containment impracticability determinations when reviewed and certified by a PE.

[3] A reportable discharge is a discharge as described in §112.1(b)(see 40 CFR part 110). The gallon amount(s) specified (either 1,000 or 42) refers to the amount of oil that actually reaches navigable waters or adjoining shorelines not the total amount of oil spilled. The entire volume of the discharge is oil for this determination.

[4] Triggering this threshold may disqualify the facility from meeting the Qualified Facility criteria if it occurred in the three years prior to self certification

[5] Inspector Note-Confirm any spills identified above were reported to NRC

112.4(d),(e)	Have changes required by the RA been implemented in the Plan and/or facility?	☐ Yes ☐ No ☑ NA
Comments: EPA is not aware of any spill history that would warrant amendments to the SPCC Plan.		

AMENDMENT OF SPCC PLAN BY THE OWNER OR OPERATOR—40 CFR 112.5

112.5(a)	Has there been a change at the facility that materially affects the potential for a discharge described in §112.1(b)?	☑ Yes ☐ No
If YES	• Was the Plan amended within six months of the change?	☐ Yes ☑ No
	• Were amendments implemented within six months of any Plan amendment?	☐ Yes ☑ No
112.5(b)	Review and evaluation of the Plan completed at least once every 5 years?	☐ Yes ☐ No ☑ NA
	Following Plan review, was Plan amended within six months to include more effective prevention and control technology that has been field-proven to significantly reduce the likelihood of a discharge described in §112.1(b)?	☐ Yes ☐ No ☑ NA
	Amendments implemented within six months of any Plan amendment?	☐ Yes ☐ No ☑ NA
	Five year Plan review and evaluation documented?	☐ Yes ☐ No ☑ NA
112.5(c)	Professional Engineer certification of any technical Plan amendments in accordance with all applicable requirements of §112.3(d) *[Except for self-certified Plans]*	☐ Yes ☐ No ☑ NA

Name:	License No.:	State:	Date of certification:

Reason for amendment: There are no SPCC Plan amendments

Comments: The Plan is overdue for amendments due to changes at the facility which materially affect the potential for di harge. General secondary containment drainage procedures were changed due to state prohibitions against discharging storm water to the Eleven Point River however the plan has not been modified to reflect the current procedures. Additional ASTs hav b n dded that are not on the current plan -- there are currently 37 tanks on site and the SPCC plan lists 29 tanks on site.

GENERAL SPCC REQUIREMENTS—40 CFR 112.7		PLAN	FIELD
Management approval at a level of authority to commit the necessary resources to fully implement the Plan[6]		☑ Yes ☐ No	
Plan follows sequence of the rule or is an equivalent Plan meeting all applicable rule requirements and includes a cross-reference of provisions		☐ Yes ☑ No ☐ NA	
If Plan calls for facilities, procedures, methods, or equipment not yet fully operational, details of their installation and start-up are discussed *(Note: Relevant for inspection evaluation and testing baselines.)*		☐ Yes ☐ No ☑ NA	
112.7(a)(2)	The Plan includes deviations from the requirements of §§112.7(g), (h)(2) and (3), and (i) and applicable subparts B and C of the rule, except the secondary containment requirements in §§112.7(c) and (h)(1), 112.8(c)(2),112.8(c)(11), 112.12(c)(2), and 112.12(c)(11)	☐ Yes ☑ No ☐ NA	
If YES	• The Plan states reasons for nonconformance	☐ Yes ☐ No ☑ NA	
	• Alternative measures described in detail and provide equivalent environmental protection *(Note: Inspector should document if the environmental equivalence is implemented in the field, in accordance with the Plan's description)*	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☐ NA
Describe each deviation and reasons for nonconformance: The plan does not identify any non-functional equipment or procedures. No plan deviations are mentioned. No alternative measures are discussed.			
112.7(a)(3)	Plan describes physical layout of facility and includes a diagram[7] that identifies: • Location and contents of all regulated fixed oil storage containers • Storage areas where mobile or portable containers are located • Completely buried tanks otherwise exempt from the SPCC requirements (marked as "exempt") • Transfer stations • Connecting pipes, including intra-facility gathering lines that are otherwise exempt from the requirements of this part under §112.1(d)(11)	☐ Yes ☑ No	☐ Yes ☑ No

[6] May be part of the Plan or demonstrated elsewhere.
[7] Note in comments any discrepancies between the facility diagram, the description of the physical layout of facility, and what is observed in the field

	Plan addresses each of the following:		
(i)	For each fixed container, type of oil and storage capacity (see Attachment A of this checklist). For mobile or portable containers, type of oil and storage capacity for each container or an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities	☐ Yes ☑ No	☐ Yes ☑ No
(ii)	Discharge prevention measures, including procedures for routine handling of products (loading, unloading, and facility transfers, etc.)	☑ Yes ☐ No	☐ Yes ☑ No
(iii)	Discharge or drainage controls, such as secondary containment around containers, and other structures, equipment, and procedures for the control of a discharge	☑ Yes ☐ No	☐ Yes ☑ No
(iv)	Countermeasures for discharge discovery, response, and cleanup (both facility's and contractor's resources)	☑ Yes ☐ No	☐ Yes ☑ No
(v)	Methods of disposal of recovered materials in accordance with applicable legal requirements	☑ Yes ☐ No	
(vi)	Contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in the case of a discharge as described in §112.1(b)	☐ Yes ☑ No	
112.7(a)(4)	*Does not apply if the facility has submitted an FRP under §112.20:* ☑ Yes ☐ No ☐ NA Plan includes information and procedures that enable a person reporting an oil discharge as described in §112.1(b) to relate information on the: • Exact address or location and phone number of the facility; • Date and time of the discharge; • Type of material discharged; • Estimates of the total quantity discharged; • Estimates of the quantity discharged as described in §112.1(b); • Source of the discharge; • Description of all affected media; • Cause of the discharge; • Damages or injuries caused by the discharge; • Actions being used to stop, remove, and mitigate the effects of the discharge; • Whether an evacuation may be needed; and • Names of individuals and/or organizations who have also been contacted.		
112.7(a)(5)	*Does not apply if the facility has submitted a FRP under §112.20:* Plan organized so that portions describing procedures to be used when a discharge occurs will be readily usable in an emergency	☐ Yes ☑ No ☐ NA	
112.7(b)	Plan includes a prediction of the direction, rate of flow, and total quantity of oil that could be discharged for each type of major equipment failure where experience indicates a reasonable potential for equipment failure	☐ Yes ☑ No ☐ NA	
	Comments: The section on Spill Documentation and Reporting does not identify all elements of 112.7(a)(4) listed above. The telephone numbers for EPA and MDNR spill reporting is incorrect. The wrong attachment is referenced for Spill Report Form and Instructions. SPCC drainage control procedures do not accurately describe actual drainage control procedures. There is no site map or figure depicting the location, size and contents of the storage tanks.		
112.7(c)	Appropriate containment and/or diversionary structures or equipment are provided to prevent a discharge as described in §112.1(b), except as provided in §112.7(k) of this section for certain qualified operational equipment. The entire containment system, including walls and floors, are capable of containing oil and are constructed to prevent escape of a discharge from the containment system before cleanup occurs. The method, design, and capacity for secondary containment address the typical failure mode and the most likely quantity of oil that would be discharged. See Attachment A of this checklist. For onshore facilities, one of the following or its equivalent: • Dikes, berms, or retaining walls sufficiently impervious to contain oil; • Curbing or drip pans; • Sumps and collection systems; • Culverting, gutters or other drainage systems; • Weirs, booms or other barriers; • Spill diversion pond; • Retention ponds; or • Sorbent materials.		
	Identify which of the following are present at the facility and if appropriate containment and/or diversionary structures or equipment are provided as described above:		

	☑ Bulk storage containers	☑ Yes ☑ No ☐ NA	☑ Yes ☑ No ☐ NA
	☐ Mobile/portable containers	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	☑ Oil-filled operational equipment (as defined in 112.2)	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	☑ Other oil-filled equipment (i.e., manufacturing equipment)	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	☐ Piping and related appurtenances	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
	☑ Mobile refuelers or non-transportation-related tank cars	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	☑ Transfer areas, equipment and activities	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
	☐ Identify any other equipment or activities that are not listed above: _____	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
112.7(d)	Secondary containment for one (or more) of the following provisions is determined to be impracticable: ☐ General secondary containment §112.7(c) ☐ Loading/unloading rack §112.7(h)(1) ☐ Bulk storage containers §§112.8(c)(2)/112.12(c)(2) ☐ Mobile/portable containers §§112.8(c)(11)/ 112.12(c)(11)	☐ Yes ☑ No	
If YES	• The impracticability of secondary containment is clearly demonstrated and described in the Plan	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	• For bulk storage containers,[8] periodic integrity testing of containers and integrity and leak testing of the associated valves and piping is conducted	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	(Does not apply if the facility has submitted a FRP under §112.20): • Contingency Plan following the provisions of 40 CFR part 109 is provided (see Attachment C of this checklist) AND	☐ Yes ☐ No ☑ NA	
	• Written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☐ NA

Comments: The SPCC plan identifies 29 bulk storage tanks but there are 37 bulk tanks on site. Some bulk tanks are not equipped with sized secondary containment but no impracticability claims are made. There are no mobile containers. There is a transformer on site and piping and related appurtenances that are not addressed in the plan. There are loading racks for rail cars and tank trucks that are not equipped with sized secondary containment but the plans makes no claims for impracticability as the plan relies on general secondary containment, i.e., a berm surrounding the property, for containment.

		PLAN	FIELD
112.7(e)	Inspections and tests conducted in accordance with written procedures	☑ Yes ☐ No	☐ Yes ☑ No
	Record of inspections or tests signed by supervisor or inspector	☐ Yes ☑ No	☐ Yes ☑ No
	Kept with Plan for at least 3 years (see Attachment B of this checklist)[9]	☑ Yes ☐ No	☐ Yes ☑ No
112.7(f)	Personnel, training, and oil discharge prevention procedures		
(1)	Training of oil-handling personnel in operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and contents of SPCC Plan	☑ Yes ☐ No ☐ NA	☐ Yes ☑ No ☐ NA

[8] These additional requirements apply only to bulk storage containers, when an impracticability determination has been made by the PE
[9] Records of inspections and tests kept under usual and customary business practices will suffice

(2)	Person designated as accountable for discharge prevention at the facility and reports to facility management	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
(3)	Discharge prevention briefings conducted at least once a year for oil handling personnel to assure adequate understanding of the Plan. Briefings highlight and describe known discharges as described in §112.1(b) or failures, malfunctioning components, and any recently developed precautionary measures	☑ Yes ☐ No ☐ NA	☐ Yes ☑ No ☐ NA
112.7(g)	Plan describes how to: • Secure and control access to the oil handling, processing and storage areas; • Secure master flow and drain valves; • Prevent unauthorized access to starter controls on oil pumps; • Secure out-of-service and loading/unloading connections of oil pipelines; and • Address the appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges.	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
112.7(h)	Tank car and tank truck loading/unloading rack[10] is present at the facility *Loading/unloading rack* means a fixed structure (such as a platform, gangway) necessary for loading or unloading a tank truck or tank car, which is located at a facility subject to the requirements of this part. A loading/unloading rack includes a loading or unloading arm, and may include any combination of the following: piping assemblages, valves, pumps, shut-off devices, overfill sensors, or personnel safety devices.		☑ Yes ☐ No
If YES (1)	Does loading/unloading rack drainage flow to catchment basin or treatment facility designed to handle discharges or use a quick drainage system?	☐ Yes ☑ No ☐ NA	☑ Yes ☐ No ☐ NA
	Containment system holds at least the maximum capacity of the largest single compartment of a tank car/truck loaded/unloaded at the facility	☐ Yes ☑ No ☐ NA	☑ Yes ☐ No ☐ NA
(2)	An interlocked warning light or physical barriers, warning signs, wheel chocks, or vehicle brake interlock system in the area adjacent to the loading or unloading rack to prevent vehicles from departing before complete disconnection of flexible or fixed oil transfer lines	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
(3)	Lower-most drains and all outlets on tank cars/trucks inspected prior to filling/departure, and, if necessary ensure that they are tightened, adjusted, or replaced to prevent liquid discharge while in transit	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA

Comments: The facility is serviced by a rail spur but tank car loading and unloading containment is not addressed by the plan. Tanker truck loading and unloading sized containment is not addressed. Both areas are equipped with loading racks that are not addressed b the plan. The site visit determined that containment for both areas is provided by general secondary containment that is contained and discharged to a permitted land application area but water is not inspected prior to discharge and no records are maintained. Truck loading and/or offloading procedures are not addressed in the plan.

		PLAN	FIELD
112.7(l)	Brittle fracture evaluation of field-constructed aboveground containers is conducted after tank repair, alteration, reconstruction, or change in service that might affect the risk of a discharge or after a discharge/failure due to brittle fracture or other catastrophe, and appropriate action taken as necessary (applies to only field-constructed aboveground containers)	☐ Yes ☑ No ☐ NA	☐ Yes ☐ No ☑ NA
112.7(j)	Discussion of conformance with applicable more stringent State rules, regulations, and guidelines and other effective discharge prevention and containment procedures listed in 40 CFR part 112	☐ Yes ☑ No ☐ NA	
112.7(k)	Qualified oil-filled operational equipment is present at the facility[11]		☑ Yes ☐ No

[10] Note that a tank car/truck loading/unloading rack must be present for §112.7(h) to apply

[11] This provision does not apply to oil-filled manufacturing equipment (flow-through process)

If YES	*Oil-filled operational equipment* means equipment that includes an oil storage container (or multiple containers) in which the oil is present solely to support the function of the apparatus or the device. Oil-filled operational equipment is not considered a bulk storage container, and does not include oil-filled manufacturing equipment (flow-through process). Examples of oil-filled operational equipment include, but are not limited to, hydraulic systems, lubricating systems (e.g., those for pumps, compressors and other rotating equipment, including pumpjack lubrication systems), gear boxes, machining coolant systems, heat transfer systems, transformers, circuit breakers, electrical switches, and other systems containing oil solely to enable the operation of the device. Check which apply: Secondary Containment provided in accordance with 112.7(c) ☑ Alternative measure described below (confirm eligibility) ☐		
112.7(k)	Qualified Oil-Filled Operational Equipment • Has a single reportable discharge as described in §112.1(b) from any oil-filled operational equipment exceeding 1,000 U.S. gallons occurred within the three years prior to Plan certification date?	☐ Yes ☑ No ☐ NA	
	• Have two reportable discharges as described in §112.1(b) from any oil-filled operational equipment each exceeding 42 U.S. gallons occurred within any 12-month period within the three years prior to Plan certification date?[12]	☐ Yes ☑ No ☐ NA	
	If YES for either, secondary containment in accordance with §112.7(c) is required		
	• Facility procedure for inspections or monitoring program to detect equipment failure and/or a discharge is established and documented	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☐ NA
	Does not apply if the facility has submitted a FRP under §112.20: • Contingency plan following 40 CFR part 109 (see Attachment C of this checklist) is provided in Plan AND	☐ Yes ☐ No ☑ NA	
	• Written commitment of manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful is provided in Plan	☐ Yes ☐ No ☑ NA	

Comments: Integrity testing requirements are not addressed by the plan. The plan does not address the oil filled transformer on site. The plan does not address compliance with other state rules which may apply since contained water is not inspected prior to discharge to the lad under a state land application permit, it is possible that oil contaminated water would be land applied which may not comply with the state permitted land application requirements.

ONSHORE FACILITIES (EXCLUDING PRODUCTION) 40 CFR 112.8/112.12		PLAN	FIELD
112.8(b)/ 112.12(b) Facility Drainage			
Diked Areas (1)	Drainage from diked storage areas is: • Restrained by valves, except where facility systems are designed to control such discharge, OR • Manually activated pumps or ejectors are used and the condition of the accumulation is inspected prior to draining dike to ensure no oil will be discharged	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
(2)	Diked storage area drain valves are manual, open-and-closed design (not flapper-type drain valves)	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
	If drainage is released directly to a watercourse and not into an onsite wastewater treatment plant, retained storm water is inspected and discharged per §§112.8(c)(3)(ii), (iii), and (iv) or §§112.12(c)(3)(ii), (iii), and (iv).	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
Undiked Areas (3)	Drainage from undiked areas with a potential for discharge designed to flow into ponds, lagoons, or catchment basins to retain oil or return it to facility. Catchment basin located away from flood areas.[13]	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA

[12] Oil discharges that result from natural disasters, acts of war, or terrorism are not included in this determination. The gallon amount(s) specified (either 1,000 or 42) refers to the amount of oil that actually reaches navigable waters or adjoining shorelines not the total amount of oil spilled. The entire volume of the discharge is oil for this determination.

[13] Oil discharges that result from natural disasters, acts of war, or terrorism are not included in this determination. The gallon amount(s) specified (either 1,000 or 42) refers to the amount of oil that actually reaches navigable waters or adjoining shorelines not the total amount of oil spilled. The entire volume of the discharge is oil for this determination.

(4)	If facility drainage not engineered as in (b)(3) (i.e., drainage flows into ponds, lagoons, or catchment basins) then the facility is equipped with a diversion system to retain oil in the facility in the event of an uncontrolled discharge.[14]	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
(5)	Are facility drainage waters continuously treated in more than one treatment unit and pump transfer is needed?	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
If *YES*	• Two "lift" pumps available and at least one permanently installed	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☐ NA
	• Facility drainage systems engineered to prevent a discharge as described in §112.1(b) in the case of equipment failure or human error	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☐ NA

Comments: General secondary containment described in the plan has been altered to comply with state storm water program that has prohibited storm water discharge from the facility. Storm water is now retained and automatically pumped to a land application area but the pump is automated and discharge is not inspected prior to land application. The plan does not address this practice.

112.8(c)/112.12(c) Bulk Storage Containers ☐ NA

Bulk storage container means any container used to store oil. These containers are used for purposes including, but not limited to, the storage of oil prior to use, while being used, or prior to further distribution in commerce. Oil-filled electrical, operating, or manufacturing equipment is not a bulk storage container.

If bulk storage containers are not present, mark this section Not Applicable (NA). If present, complete this section and Attachment A of this checklist.

(1)	Containers materials and construction are compatible with material stored and conditions of storage such as pressure and temperature	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
(2)	Except for mobile refuelers and other non-transportation-related tank trucks, construct all bulk storage tank installations with secondary containment to hold capacity of largest container and sufficient freeboard for precipitation	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	Diked areas sufficiently impervious to contain discharged oil OR	☑ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
	Alternatively, any discharge to a drainage trench system will be safely confined in a facility catchment basin or holding pond	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
		PLAN	FIELD
(3)	Is there drainage of uncontaminated rainwater from diked areas into a storm drain or open watercourse?	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
If YES	• Bypass valve normally sealed closed	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	• Retained rainwater is inspected to ensure that its presence will not cause a discharge as described in §112.1(b)	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	• Bypass valve opened and resealed under responsible supervision	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	• Adequate records of drainage are kept; for example, records required under permits issued in accordance with 40 CFR §§122.41(j)(2) and (m)(3)	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
(4)	For completely buried metallic tanks installed on or after January 10, 1974 (if not exempt from SPCC regulation because subject to all of the technical requirements of 40 CFR part 280 or 281):		
	• Provide corrosion protection with coatings or cathodic protection compatible with local soil conditions	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	• Regular leak testing conducted	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
(5)	The buried section of partially buried or bunkered metallic tanks protected from corrosion with coatings or cathodic protection compatible with local soil conditions	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA

[14] These provisions apply only when a facility drainage system is used for containment; otherwise mark NA

(6)	• Test or inspect each aboveground container for integrity on a regular schedule and whenever you make material repairs. Techniques include, but are not limited to: visual inspection, hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or other system of non-destructive testing	☑ Yes ☐ No ☐ NA	☐ Yes ☑ No ☐ NA
	• Appropriate qualifications for personnel performing tests and inspections are identified in the Plan and have been assessed in accordance with industry standards	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	• The frequency and type of testing and inspections are documented, are in accordance with industry standards and take into account the container size, configuration and design	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	• Comparison records of aboveground container integrity testing are maintained	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	• Container supports and foundations regularly inspected	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	• Outside of containers frequently inspected for signs of deterioration, discharges, or accumulation of oil inside diked areas	☑ Yes ☐ No ☐ NA	☐ Yes ☑ No ☐ NA
	• Records of all inspections and tests maintained[15]	☑ Yes ☐ No ☐ NA	☐ Yes ☑ No ☐ NA

Integrity Testing Standard identified in the Plan: The plan states that tanks will be visually inspected monthly and an annual inspection form is completed. However, the site inspection determined that inspections are not being performed as described in the plan and no records of tanks inspections are maintained. No other integrity testing is discussed in the plan.

112.12 (c)(6)(ii) *(Applies to AFVO Facilities only)*	Conduct formal visual inspection on a regular schedule for bulk storage containers that meet all of the following conditions: • Subject to 21 CFR part 110; • Have no external insulation; and • Elevated; • Shop-fabricated. • Constructed of austenitic stainless steel;	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	In addition, you must frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas.	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	You must determine and document in the Plan the appropriate qualifications for personnel performing tests and inspections.[15]	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA

		PLAN	FIELD
(7)	Leakage through defective internal heating coils controlled:		
	• Steam returns and exhaust lines from internal heating coils that discharge into an open watercourse are monitored for contamination, OR	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
	• Steam returns and exhaust lines pass through a settling tank, skimmer, or other separation or retention system	☐ Yes ☑ No ☐ NA	☐ Yes ☑ No ☐ NA
(8)	Each container is equipped with at least one of the following for liquid level sensing: • High liquid level alarms with an audible or visual signal at a constantly attended operation or surveillance station, or audible air vent in smaller facilities; • High liquid level pump cutoff devices set to stop flow at a predetermined container content level; • Direct audible or code signal communication between container gauger and pumping station; • Fast response system for determining liquid level (such as digital computers, telepulse, or direct vision gauges) and a person present to monitor gauges and overall filling of bulk containers; or • Regularly test liquid level sensing devices to ensure proper operation.	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
(9)	Effluent treatment facilities observed frequently enough to detect possible system upsets that could cause a discharge as described in §112.1(b)	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA

[15] Records of inspections and tests kept under usual and customary business practices will suffice

(10)	Visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, and bolts are promptly corrected and oil in diked areas is promptly removed	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA.
(11)	Mobile or portable containers positioned to prevent a discharge as described in §112.1(b).	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	Mobile or portable containers (excluding mobile refuelers and other non-transportation-related tank trucks) have secondary containment with sufficient capacity to contain the largest single compartment or container and sufficient freeboard to contain precipitation	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
112.8(d)/112.12(d)Facility transfer operations, pumping, and facility process			
(1)	Buried piping installed or replaced on or after August 16, 2002 has protective wrapping or coating	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	Buried piping installed or replaced on or after August 16, 2002 is also cathodically protected or otherwise satisfies corrosion protection standards for piping in 40 CFR part 280 or 281	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
	Buried piping exposed for any reason is inspected for deterioration; corrosion damage is examined; and corrective action is taken	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
(2)	Piping terminal connection at the transfer point is marked as to origin and capped or blank-flanged when not in service or in standby service for an extended time	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
(3)	Pipe supports are properly designed to minimize abrasion and corrosion and allow for expansion and contraction	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
(4)	Aboveground valves, piping, and appurtenances such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces are inspected regularly to assess their general condition	☑ Yes ☐ No ☐ NA	☑ Yes ☐ No ☐ NA
	Integrity and leak testing conducted on buried piping at time of installation, modification, construction, relocation, or replacement	☐ Yes ☐ No ☑ NA	☐ Yes ☐ No ☑ NA
(5)	Vehicles warned so that no vehicle endangers aboveground piping and other oil transfer operations	☐ Yes ☑ No ☐ NA	☑ Yes ☐ No ☐ NA
Comments: The plan states that aboveground tanks are subject to periodic visual inspection but no inspections are conducted or documented. The discussion of other facility transfer operations, pumping, and facility processes is deficient and does not address many of the elements identified in 112.8(d)/112.12(d).			

ATTACHMENT A: SPCC FIELD INSPECTION AND PLAN REVIEW TABLE

Documentation of Field Observations for Containers and Associated Requirements

Inspectors should use this table to document observations of containers as needed.

Containers and Piping

Check containers for leaks, specifically looking for: drip marks, discoloration of tanks, puddles containing spilled or leaked material, corrosion, cracks, and localized dead vegetation, and standards/specifications of construction.

Check aboveground container foundation for: cracks, discoloration, and puddles containing spilled or leaked material, settling, gaps between container and foundation, and damage caused by vegetation roots.

Check all piping for: droplets of stored material, discoloration, corrosion, bowing of pipe between supports, evidence of stored material seepage from valves or seals, evidence of leaks, and localized dead vegetation. For all aboveground piping, include the general condition of flange joints, valve glands and bodies, drip pans, pipe supports, bleeder and gauge valves, and other such items (Document in comments section of §112.8(d) or 112.12(d).)

Secondary Containment (Active and Passive)

Check secondary containment for: containment system (including walls and floor) ability to contain oil such that oil will not escape the containment system before cleanup occurs, proper sizing, cracks, discoloration, presence of spilled or leaked material (standing liquid), erosion, corrosion, penetrations in the containment system, and valve conditions.

Check dike or berm systems for: level of precipitation in dike/available capacity, operational status of drainage valves (closed), dike or berm impermeability, debris, erosion, impermeability of the earthen floor/walls of diked area, and location/status of pipes, inlets, drainage around and beneath containers, presence of oil discharges within diked areas.

Check drainage systems for: an accumulation of oil that may have resulted from any small discharge, including field drainage systems (such as drainage ditches or road ditches), and oil traps, sumps, or skimmers. Ensure any accumulations of oil have been promptly removed.

Check retention and drainage ponds for: erosion, available capacity, presence of spilled or leaked material, debris, and stressed vegetation.

Check active measures (countermeasures) for: amount indicated in plan is available and appropriate; deployment procedures are realistic; material is located so that they are readily available; efficacy of discharge detection; availability of personnel and training, appropriateness of measures to prevent a discharge as described in §112.1(b).

Container ID/ General Condition[16] Aboveground or Buried Tank	Storage Capacity and Type of Oil	Type of Containment/ Drainage Control	Overfill Protection and Testing & Inspections
A-1	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-2	30,000 gal of ethanol	Concrete containment	Tank volume indicator
A-3	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-4	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-5	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-6	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-7	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-8	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-9	30,000 gal of ethanol	Concrete containment	Tank volume indicators
A-10	30,000 gal of ethanol	Concrete containment	Tank volume indicators
1	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
2	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
3	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
4	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
	~~210,000 gal of fuel oil~~	~~Earthen berm containment*#~~	~~Tank volume indicators~~
5	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
6	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
7	210,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
8	420,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators

[16] Identify each tank with either an A to indicate aboveground or B for completely buried

ATTACHMENT A: SPCC FIELD INSPECTION AND PLAN REVIEW TABLE (CONT.)

Documentation of Field Observations for Containers and Associated Requirements

Container ID/ General Condition[17] Aboveground or Buried Tank	Storage Capacity and Type of Oil	Type of Containment/ Drainage Control	Overfill Protection and Testing & Inspections
9	420,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
10	420,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
11	420,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
12	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
14	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
15	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
16	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
17	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
18	30,000 gal of liquid asphalt	Earthen berm containment*	Tank volume indicators
~~18~~	~~10,000 gal of diesel~~	~~Earthen berm containment*#~~	~~Tank volume indicators~~
19	30,000 gal of liquid asphalt	Earthen berm containment*+	Tank volume indicators
20	30,000 gal of liquid asphalt	Earthen berm containment*+	Tank volume indicators
21	30,000 gal of liquid asphalt	Earthen berm containment*+	Tank volume indicators
22	30,000 gal of liquid asphalt	Earthen berm containment*+	Tank volume indicators
23	30,000 gal of liquid asphalt	Earthen berm containment*+	Tank volume indicators
24	30,000 gal of liquid asphalt	Earthen berm containment*+	Tank volume indicators
F-1	30,000 gal of fusel	Concrete containment+	Tank volume indicators
F-2	30,000 gal of fusel	Concrete containment+	Tank volume indicators
B-1	12,000 gal diesel fuel	Steel containment+	Tank volume indicators

* earthen berm containment is provided by general secondary containment berm that surrounds the property and is not sized secondary containment around the tanks

+these tanks do not appear in the SPCC plan tank inventory summary

#tank does not appear in the current inventory of ASTS

[17] Identify each tank with either an A to indicate aboveground or B for completely buried

ATTACHMENT B: SPCC INSPECTION AND TESTING CHECKLIST

Required Documentation of Tests and Inspections

Records of inspections and tests required by 40 CFR part 112 signed by the appropriate supervisor or inspector must be kept by all facilities with the SPCC Plan for a period of three years. Records of inspections and tests conducted under usual and customary business practices will suffice. Documentation of the following inspections and tests should be kept with the SPCC Plan.

	Inspection or Test	Documentation		Not Applicable
		Present	Not Present	
112.7–General SPCC Requirements				
(d)	Integrity testing for bulk storage containers with no secondary containment system and for which an impracticability determination has been made	☐	☐	☑
(d)	Integrity and leak testing of valves and piping associated with bulk storage containers with no secondary containment system and for which an impracticability determination has been made	☐	☐	☑
(h)(3)	Inspection of lowermost drain and all outlets of tank car or tank truck prior to filling and departure from loading/unloading rack	☐	☑	☐
(i)	Evaluation of field-constructed aboveground containers for potential for brittle fracture or other catastrophic failure when the container undergoes a repair, alteration, reconstruction or change in service or has discharged oil or failed due to brittle fracture failure or other catastrophe	☐	☑	☐
k(2)(i)	Inspection or monitoring of qualified oil-filled operational equipment when the equipment meets the qualification criteria in §112.7(k)(1) and facility owner/operator chooses to implement the alternative requirements in §112.7(k)(2) that include an inspection or monitoring program to detect oil-filled operational equipment failure and discharges	☐	☑	☐
112.8/112.12–Onshore Facilities (excluding oil production facilities)				
(b)(1), (b)(2)	Inspection of storm water released from diked areas into facility drainage directly to a watercourse	☐	☑	☐
(c)(3)	Inspection of rainwater released directly from diked containment areas to a storm drain or open watercourse before release, open and release bypass valve under supervision, and records of drainage events	☐	☑	☐
(c)(4)	Regular leak testing of completely buried metallic storage tanks installed on or after January 10, 1974 and regulated under 40 CFR 112	☐	☐	☑
(c)(6)	Regular integrity testing of aboveground containers and integrity testing after material repairs, including comparison records	☐	☐	☑
(c)(6), (c)(10)	Regular visual inspections of the outsides of aboveground containers, supports and foundations	☐	☑	☐
(c)(6)	Frequent inspections of diked areas for accumulations of oil	☐	☑	☐
(c)(8)(v)	Regular testing of liquid level sensing devices to ensure proper operation	☐	☑	☐
(c)(9)	Frequent observations of effluent treatment facilities to detect possible system upsets that could cause a discharge as described in §112.1(b)	☐	☐	☑
(d)(1)	Inspection of buried piping for damage when piping is exposed and additional examination of corrosion damage and corrective action, if present	☐	☐	☑
(d)(4)	Regular inspections of aboveground valves, piping and appurtenances and assessments of the general condition of flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces	☐	☑	☐
(d)(4)	Integrity and leak testing of buried piping at time of installation, modification, construction, relocation or replacement	☐	☐	☑

ATTACHMENT C: SPCC CONTINGENCY PLAN REVIEW CHECKLIST ☑ NA

40 CFR Part 109–Criteria for State, Local and Regional Oil Removal Contingency Plans

If SPCC Plan includes an impracticability determination for secondary containment in accordance with §112.7(d), the facility owner/operator is required to provide an oil spill contingency plan following 40 CFR part 109, unless he or she has submitted a FRP under §112.20. An oil spill contingency plan may also be developed, unless the facility owner/operator has submitted a FRP under §112.20 as one of the required alternatives to general secondary containment for qualified oil filled operational equipment in accordance with §112.7(k).

109.5–Development and implementation criteria for State, local and regional oil removal contingency plans[18]		Yes	No
(a)	Definition of the authorities, responsibilities and duties of all persons, organizations or agencies which are to be involved in planning or directing oil removal operations.	☐	☐
(b)	Establishment of notification procedures for the purpose of early detection and timely notification of an oil discharge including:	☐	☐
(1)	The identification of critical water use areas to facilitate the reporting of and response to oil discharges.	☐	☐
(2)	A current list of names, telephone numbers and addresses of the responsible persons (with alternates) and organizations to be notified when an oil discharge is discovered.	☐	☐
(3)	Provisions for access to a reliable communications system for timely notification of an oil discharge, and the capability of interconnection with the communications systems established under related oil removal contingency plans, particularly State and National plans (e.g., National Contingency Plan (NCP)).	☐	☐
(4)	An established, prearranged procedure for requesting assistance during a major disaster or when the situation exceeds the response capability of the State, local or regional authority.	☐	☐
(c)	Provisions to assure that full resource capability is known and can be committed during an oil discharge situation including:	☐	☐
(1)	The identification and inventory of applicable equipment, materials and supplies which are available locally and regionally.	☐	☐
(2)	An estimate of the equipment, materials and supplies that would be required to remove the maximum oil discharge to be anticipated.	☐	☐
(3)	Development of agreements and arrangements in advance of an oil discharge for the acquisition of equipment, materials and supplies to be used in responding to such a discharge.	☐	☐
(d)	Provisions for well-defined and specific actions to be taken after discovery and notification of an oil discharge including:	☐	☐
(1)	Specification of an oil discharge response operating team consisting of trained, prepared and available operating personnel.	☐	☐
(2)	Pre-designation of a properly qualified oil discharge response coordinator who is charged with the responsibility and delegated commensurate authority for directing and coordinating response operations and who knows how to request assistance from Federal authorities operating under existing national and regional contingency plans.	☐	☐
(3)	A preplanned location for an oil discharge response operations center and a reliable communications system for directing the coordinated overall response operations.	☐	☐
(4)	Provisions for varying degrees of response effort depending on the severity of the oil discharge.	☐	☐
(5)	Specification of the order of priority in which the various water uses are to be protected where more than one water use may be adversely affected as a result of an oil discharge and where response operations may not be adequate to protect all uses.	☐	☐
(e)	Specific and well defined procedures to facilitate recovery of damages and enforcement measures as provided for by State and local statutes and ordinances.	☐	☐

[18] The contingency plan should be consistent with all applicable state and local plans, Area Contingency Plans, and the NCP.

ATTACHMENT D: TIER II QUALIFIED FACILITY CHECKLIST ☑ NA

TIER II QUALIFIED FACILITY PLAN REQUIREMENTS —40 CFR 112.6(b)		
112.6(b)(1)	**Plan Certification:** Owner/operator certified in the Plan that:	☐ Yes ☐ No
(i)	He or she is familiar with the requirements of 40 CFR part 112	☐ Yes ☐ No ☐ NA
(ii)	He or she has visited and examined the facility[19]	☐ Yes ☐ No ☐ NA
(iii)	The Plan has been prepared in accordance with accepted and sound industry practices and standards and with the requirements of this part	☐ Yes ☐ No ☐ NA
(iv)	Procedures for required inspections and testing have been established	☐ Yes ☐ No ☐ NA
(v)	He or she will fully implement the Plan	☐ Yes ☐ No ☐ NA
(vi)	The facility meets the qualification criteria set forth under §112.3(g)(2)	☐ Yes ☐ No ☐ NA
(vii)	The Plan does not deviate from any requirements as allowed by §§112.7(a)(2) and 112.7(d), except as described under §112.6(b)(3)(i) or (ii)	☐ Yes ☐ No ☐ NA
(viii)	The Plan and individual(s) responsible for implementing the Plan have the full approval of management and the facility owner or operator has committed the necessary resources to fully implement the Plan.	☐ Yes ☐ No ☐ NA
112.6(b)(2)	**Technical Amendments:** The owner/operator self-certified the Plan's technical amendments for a change in facility design, construction, operation, or maintenance that affected potential for a §112.1(b) discharge	☐ Yes ☐ No ☐ NA
If **YES**	• Certification of technical amendments is in accordance with the self-certification provisions of §112.6(b)(1).	☐ Yes ☐ No ☐ NA
(i)	A PE certified a portion of the Plan (i.e., Plan is informally referred to as a hybrid Plan)	☐ Yes ☐ No ☐ NA
If **YES**	• The PE also certified technical amendments that affect the PE certified portion of the Plan as required under §112.6(b)(4)(ii)	☐ Yes ☐ No ☐ NA
(ii)	The aggregate aboveground oil storage capacity increased to more than 10,000 U.S. gallons as a result of the change	☐ Yes ☐ No ☐ NA
If **YES**	*The facility no longer meets the Tier II qualifying criteria in §112.3(g)(2) because it exceeds 10,000 U.S. gallons in aggregate aboveground storage capacity.*	
	The owner/operator prepared and implemented a Plan within 6 months following the change and had it certified by a PE under §112.3(d)	☐ Yes ☐ No ☐ NA
112.6(b)(3)	**Plan Deviations:** Does the Plan include environmentally equivalent alternative methods or impracticability determinations for secondary containment?	☐ Yes ☐ No ☐ NA
If **YES**	Identify the alternatives in the hybrid Plan:	
	• Environmental equivalent alternative method(s) allowed under §112.7(a)(2);	☐ Yes ☐ No ☐ NA
	• Impracticability determination under §112.7(d)	☐ Yes ☐ No ☐ NA
112.6(b)(4)	• For each environmentally equivalent measure, the Plan is accompanied by a written statement by the PE that describes: the reason for nonconformance, the alternative measure, and how it offers equivalent environmental protection in accordance with §112.7(a)(2);	☐ Yes ☐ No ☐ NA
	• For each secondary containment impracticability determination, the Plan explains the reason for the impracticability determination and provides the alternative measures to secondary containment required in §112.7(d)	☐ Yes ☐ No ☐ NA
	AND	
(i)	PE certifies in the Plan that:	
(A)	He/she is familiar with the requirements of 40 CFR Part 112	☐ Yes ☐ No ☐ NA
(B)	He/she or a representative agent has visited and examined the facility	☐ Yes ☐ No ☐ NA
(C)	The alternative method of environmental equivalence in accordance with §112.7(a)(2) or the determination of impracticability and alternative measures in accordance with §112.7(d) is consistent with good engineering practice, including consideration of applicable industry standards, and with the requirements of 40 CFR Part 112.	☐ Yes ☐ No ☐ NA

Comments:

[19] Note that only the person certifying the Plan can make the site visit

ATTACHMENT E: ADDITIONAL COMMENTS

Coastal Energy Corporation (Coastal) owns and operates a 2.8 million gallon bulk oil storage facility in Willow Springs, Missouri. The facility was targeted for inspection to determine whether the facility was subject to the Facility Response Planning (FRP) requirements of 40 CFR Part 112.

Based on a review of the facility's SPCC plan and a site inspection conducted on February 10, 2014, the facility meets the substantial harm criteria with regard to threat to fish, wildlife and sensitive environments and the facility is subject to FRP regulation.

The SPCC plan's Certification of Substantial Harm states that the facility does not pose a threat of substantial harm. This finding was based on an improper assumption that a general secondary containment berm surrounding the facility would prevent a worst-case discharge from entering the nearby Eleven Point River, a nationally protected wild and scenic river managed by the U.S Forest Service.

Other significant SPCC Plan Review and Site Inspection findings are summarized below:

- The SPCC plan dated December 2009 is out of date and does not accurately describe the current operation.
  - Ten additional bulk storage tanks have been added and two tanks were either removed or where never installed since the 2009 plan was signed.
  - Facility inspections as described in the plan are not conducted and no inspection records are maintained as described in the plan.
  - Training as described in the plan is not conducted and no training records are maintained.
  - Drainage discharge procedures described in the plan are not followed and no records are maintained.
- Twenty four bulk storage tanks holding asphalt liquid (> 2.4 million gallon capacity) lack specific (sized) secondary containment. Containment for these tanks is provided by general secondary containment berm that surrounds the property.
- The facility has had to alter their drainage discharge procedures at the state's direction to land apply accumulated runoff. This process has been automated which does not allow for inspection of accumulated runoff for evidence of oil before discharge. The SPCC plan was never revised to reflect this change in procedure.

ATTACHMENT F: PHOTO DOCUMENTATION NOTES

Photo#	Photographer Name	Time of Photo Taken	Compass Direction	Description
1	Paul Doherty, EPA	AM 2/10/2014	Southeast	Coastal Energy Corp., ethanol tanks inside secondary containment.
2	Paul Doherty, EPA	AM 2/10/2014	North	View of 2 of 15 liquid asphalt tanks not within sized secondary containment.
3	Paul Doherty, EPA	AM 2/10/2014	Northeast	View of ten 30,000 gallon liquid asphalt tanks not within sized secondary containment.
4	Paul Doherty, EPA	AM 2/10/2014	Southwest	Railcar loading rack lacks sized secondary containment.
5	Paul Doherty, EPA	AM 2/10/2014	Northwest	View of secondary containment around ethanol tanks and drainage control valve out of containment.
6	Paul Doherty, EPA	AM 2/10/2014	Southeast	View of 30,000 gallon liquid asphalt tanks.
7	Paul Doherty, EPA	AM 2/10/2014	Southwest	Tank truck loading rack lacks sized secondary containment.
8	Paul Doherty, EPA	AM 2/10/2014	West	View of oil water separator without sized secondary containment.
9	Paul Doherty, EPA	AM 2/10/2014	Northeast	View of general secondary containment outlet that has since been closed by order of the state. Accumulated water is automatically pumped via a float activated pump to an open field south of the tank farm under permit from the state without prior visual inspection. This drainage control practice is not addressed in the SPCC plan.
10	Paul Doherty, EPA	AM 2/10/2014	North	View of former drainage outlet now acting as a sump pit for drainage control and general secondary containment.
11	Paul Doherty, EPA	AM 2/10/2014	North	View of the headwaters of the Eleven Point River, a nationally designated wild and scenic river.
12	Paul Doherty, EPA	AM 2/10/2014	Southeast	View of 10,000 gallon fuel tank within secondary containment

Ap: 7985

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH
FORM A – APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT UNDER MISSOURI CLEAN WATER LAW

FOR AGENCY USE ONLY

CHECK NUMBER	
7290	
DATE RECEIVED	FEE SUBMITTED
9-28-11	1500

Note ▶ PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.

1. This application is for: MO 0136 883

- ☐ An operating permit and antidegradation review public notice
- ☐ A construction permit following an appropriate operating permit and antidegradation review public notice
- ☐ A construction permit and concurrent operating permit and antidegradation review public notice
- ☐ A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required)
- ☑ An operating permit for a new or unpermitted facility — Construction Permit # _____
- ☐ An operating permit renewal: permit # MO- _____ — Expiration Date _____
- ☐ An operating permit modification: permit # MO- _____ — Reason: _____

1.1 Is the appropriate fee included with the application? (See instructions for appropriate fee) ☐ YES ☐ NO

2. FACILITY

NAME	TELEPHONE WITH AREA CODE
Coastal Energy Corporation	(417) 469-2777
	FAX (417) 469-2294

ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
1 Coastal Drive	Willow Springs	MO	65793

3. OWNER

NAME	E-MAIL ADDRESS	TELEPHONE WITH AREA CODE
Coastal Energy Corporation		(417) 469-2777
		FAX (417) 469-2294

ADDRESS (MAILING)	CITY	STATE	ZIP CODE
P.O. Box 218	Willow Springs	MO	65793

3.1 Request review of draft permit prior to public notice? ☑ YES ☐ NO

4. CONTINUING AUTHORITY

NAME	TELEPHONE WITH AREA CODE
Same as owner.	
	FAX

ADDRESS (MAILING)	CITY	STATE	ZIP CODE

5. OPERATOR

NAME	CERTIFICATE NUMBER	TELEPHONE WITH AREA CODE
Same as owner.	NA	
		FAX

ADDRESS (MAILING)	CITY	STATE	ZIP CODE

SS G35 & G49 No Discharge Appl

6. FACILITY CONTACT

NAME	TITLE	TELEPHONE WITH AREA CODE
Jeff Cunningham	Compliance Manager	(417) 469-2777
		FAX (417) 469-2294

7. ADDITIONAL FACILITY INFORMATION

7.1 Legal Description of Outfalls. (Attach additional sheets if necessary.)

001 SE ¼ SE ¼ Sec 32 T 27N R 9W Howell County
UTM Coordinates Easting (X): 593605.75 Northing (Y): 4091953.48
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

002 NE ¼ SE ¼ Sec 32 T 27N R 9W Howell County
UTM Coordinates Easting (X): 593477.70 Northing (Y): 4092504.60

003 ____ ¼ ____ ¼ Sec ____ T ____ R ____ ____ County
UTM Coordinates Easting (X): _____ Northing (Y): _____

004 ____ ¼ ____ ¼ Sec ____ T ____ R ____ ____ County
UTM Coordinates Easting (X): _____ Northing (Y): _____

7.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

001 – SIC 2951 and NAICS 324121 002 – SIC _____ and NAICS _____
003 – SIC _____ and NAICS _____ 004 – SIC _____ and NAICS _____

MO 780-1479 (01-09)

Ozark/ Black/ Current

593240/ 4092680
593436/ 4092513

0.58 mi

RECEIVED
SEP 28 2011
By _____

8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION (Complete all forms that are applicable.)

A.	Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below).	YES ☐	NO ☑
B.	Is your facility considered a "Primary Industry" under EPA guidelines: If yes, complete Forms C and D.	YES ☐	NO ☑
C.	Is application for storm water discharges only? If yes, complete EPA Form 2F.	YES ☐	NO ☑
D.	Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.		
E.	Is wastewater land applied? If yes, complete Form I.	YES ☑	NO ☐
F.	Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? If yes, complete Form R.	YES ☐	NO ☑

9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions. (PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE).

NAME			
Jasper Engines			
ADDRESS	**CITY**	**STATE**	**ZIP CODE**
300 Industrial Drive	Willow Springs	MO	65793

10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission.

NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE WITH AREA CODE
David Montgomery, President	(471) 469-2777
SIGNATURE David Montgomery	**DATE SIGNED** 9-27-11

MO 780-1479 (01-09)

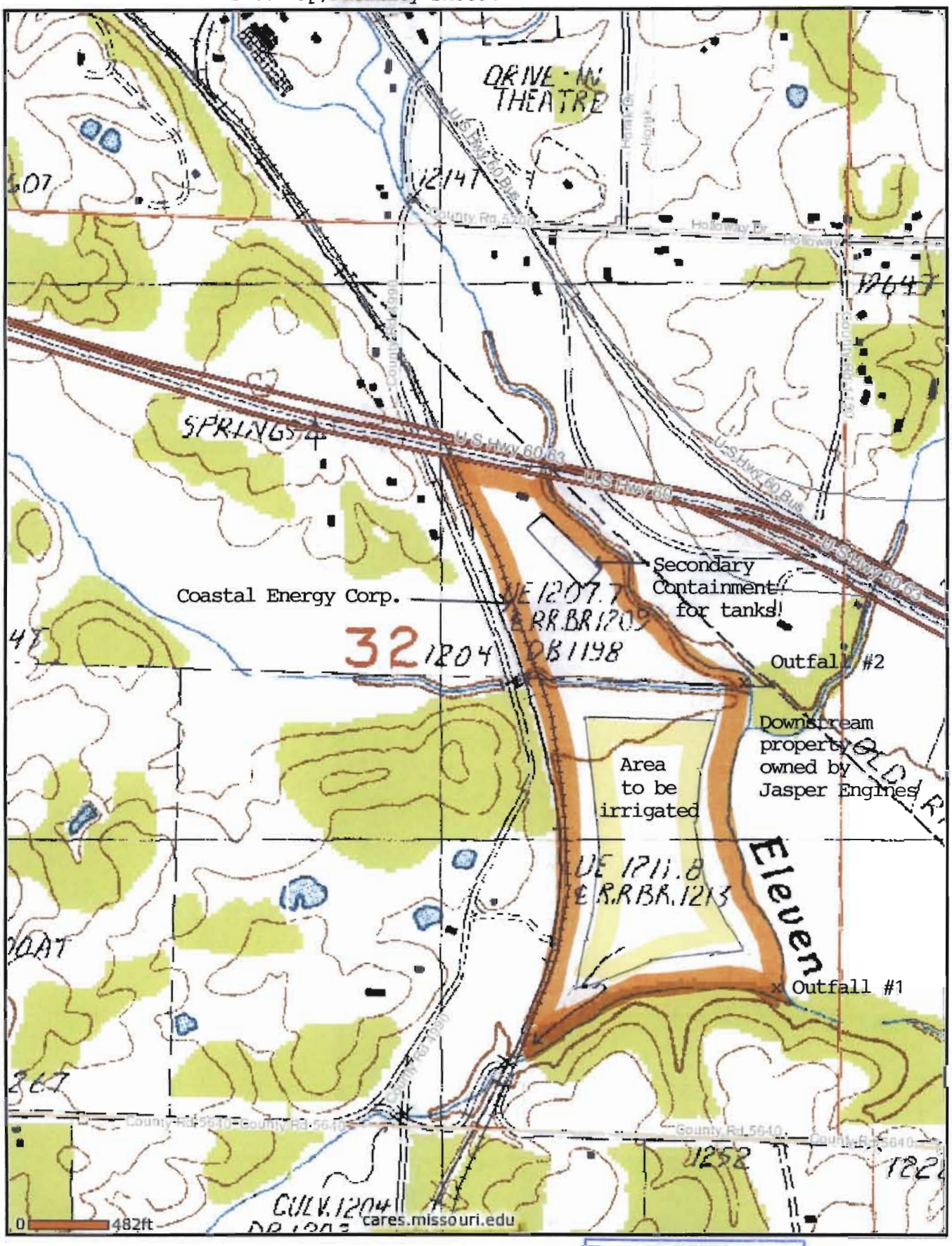
BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- ☐ Appropriate Fees?
- ☐ Map at 1" = 2000' scale?
- ☐ Signature?
- ☐ Form C, if applicable?
- ☐ Form D, if applicable?
- ☐ Form 2F, if applicable?
- ☐ Form I (Irrigation), if applicable?
- ☐ Form R (Sludge), if applicable?

Coastal Energy Corporation
Site Map/Facility Sketch



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

NO DEGRADATION EVALUATION
CONCLUSION OF ANTIDEGRADATION REVIEW

(Submit this form with the appropriate Permit Application)

1. FACILITY

NAME		COUNTY	
Coastal Energy Corporation		Howell	
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
1 Coastal Drive	Willow Springs	MO	65793
FACILITY CONTACT:		TELEPHONE NUMBER WITH AREA CODE	
Jeff Cunningham		417-469-2777	

2. NO DEGRADATION OPTIONS

- ☐ Renewal without changes
- ☐ Sewer extensions
- ☐ CSO elimination projects
- ☑ No-discharge with land application
- ☐ No-discharge with subsurface irrigation
- ☐ Recycle or reuse of effluent
- ☐ Discharge to a regional wastewater collection and treatment system.
- ☐ Addition or replacement of disinfection system for an existing wastewater facility: Ultraviolet or Ozone

  The facility will be required to meet regulatory effluent limits for bacteria.
- ☐ Addition or replacement for chlorination or dechlorination disinfection system of existing facility.

  The chlorination or dechlorination disinfection treatment system design must be for total removal of Total Residual Chlorine. Therefore, the facility will be required to meet the water quality-bases effluent limits determined by the permit writer or the following water quality-bases effluent limits:

Beneficial Use of Classified Water	MDL (µg/l)	AML (µg/l)
Warm-water fishery	17	8.2
Cold-water fishery	3.3	1.6

Note: These compliance limits for Total Residual Chlorine are much less than minimum quantification level, or ML, of 0.13. The facility will be required to meet regulatory effluent limits for bacteria.

- ☐ Other, please describe: _____

Consulted with Water Protection Staff:

NAME	DATE
Tim Southers	09/19/2011

3. NO DEGRADATION PROPOSED PROJECT SUMMARY

Coastal Energy Corporation has ethanol & diesel storage tanks within a concrete secondary containment structure. Since the location is in the floodplain for the Eleven Point River, the DNR Water Pollution Control Program is requiring an application for a site-specific "no-discharge" permit. Any storm water collected with the secondary containment structure will be examined to ensure that there are no visible contaminants, then pumped into a 2,000 gallon water truck which will use the water to irrigate a 40-acre hay field adjacent to and south of the property where the tanks are located. Since a 200' buffer will be maintained between the irrigated area and the river/property lines, the irrigation will be limited to the 28 acres in the center of the 40-acre field.

CONSULTANT: I have prepared or reviewed this form and all attached reports and documentation. The conclusion proposed is consistent with the Antidegradation Implementation Procedure and current state and federal regulations.

SIGNATURE	DATE
Curtis Heider	9/22/11

PRINT NAME

Curtis Heider

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
573-445-3033	heiderenv@centurytel.net

Owner: I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
Robert Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Continuing Authority: Continuing Authority is the permanent organization that will be responsible for the operation, maintenance and modernization of the facility. The regulatory requirement regarding continuing authority is available at www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf.

I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
Robert Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Return completed form with the appropriate Permit Application to:

Missouri Department of Natural Resources
Water Protection Program
Water Pollution Control Branch
P.O. Box 176
Jefferson City, MO 65102

MO780-2026 (01/09)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
(SEE MAP FOR APPROPRIATE REGIONAL OFFICE)

FORM I – PERMIT APPLICATION FOR CONSTRUCTION AND OPERATION OF WASTEWATER IRRIGATION SYSTEMS

FOR AGENCY USE ONLY
PERMIT NUMBER MO -
DATE RECEIVED

INSTRUCTIONS: The following forms must be submitted with Form I: FORM B for domestic wastewater. **Submit FORMS E and G** for land disturbance permit if construction areas total one acre or more.

1.00 FACILITY INFORMATION

1.10 Facility Name

Coastal Energy Corporation

1.20 Application for:
- ☐ Construction Permit (attach Engineering report, Plans and Specifications per 10 CSR 20-8)
- ☑ Operating Permit (if no construction permit, attach engineering documents)
  Date Irrigation System Began Operation: 9/20/2011
- ☐ Operating Permit Renewal

1.30 Type of wastewater to be irrigated: ☐ Domestic ☐ Municipal ☐ State/National Park ☐ Seasonal business
☐ Municipal with Pretreatment Program or Significant Industrial Users ☑ Other (explain) Storm water from secondary containment structure.
SIC Codes (list all that apply, in order of importance) 2951

1.40 Months when the business or enterprise will operate or generate wastewater:
☑ 12 months per year ☐ Part of year (list Months): _____

1.50 This system is designed for:
☐ No-discharge ☐ Partial irrigation when feasible and discharge rest of time.
☐ Irrigation during recreation season (April – October) and discharge during November – March.
☑ Other (explain) Irrigation during the entire year.

1.60 List the Facility outfalls which will be applicable to the irrigation system from outfalls listed on Form B.
Outfall Nos. 1 ___ ___ ___ ___ ___ ___

2.00 STORAGE BASINS

2.10 Number of storage basins: NA Type of basin: ☐ Steel ☐ Concrete ☐ Fiberglass ☐ Earthen
☐ Earthen with membrane liner

2.20 Storage basin dimensions at inside top of berm (feet): Report freeboard as feet from top of berm to emergency spillway or overflow pipe.
(Complete Attachment A: Profile Sketch)

Basin #1: Length _____ Width _____ Depth _____ Freeboard _____ Berm Width _____ % Slope _____
Basin #2: Length _____ Width _____ Depth _____ Freeboard _____ Berm Width _____ % Slope _____

2.30 Storage Basin operating levels (report as feet below emergency overflow level)
Basin #1: Maximum water level _____ ft. Minimum operating water level _____ ft.
Basin #2: Maximum water level _____ ft. Minimum operating water level _____ ft.

2.40 Depth of sludge in lagoons and storage basins _____ ft.
Total sludge stored _____ dry tons _____ cu. ft.

3.00 LAND APPLICATION SYSTEM

3.10 Number of irrigation sites 1 Total Acres 28 Maximum % field slopes 0.4
Location: ___ ¼, ___ ¼, SE ¼, 32 Sec. 27N T 9W R Howell County 40 Acres
Location: ___ ¼, ___ ¼, ___ ¼, ___ Sec. ___ T ___ R _____ County ___ Acres

RECEIVED
SEP 28 2011
By

3.11 Type of vegetation: ☑ Grass hay ☐ Pasture ☐ Timber ☐ Row crops ☐ Other (describe) _____

3.20 Wastewater flow (dry weather) gallons/day:
Average annual: NA Seasonal _____ Off-season _____
Months of seasonal flow: _____
Human Population Equivalent: _____

3.21 Land Application rate per acre (design flow including 1 in 10 year storm water flows):
Design: 3.01 inches/year 0.05 inches/hour 0.25 inches/day 0.55 inches/week
Actual: 2.13 inches/year 0.01 inches/hour 0.02 inches/day 0.05 inches/week
Total Irrigation per year (gallons): 142,183 Design 100,531 Actual
Actual months used for Irrigation (check): ☑ Jan ☑ Feb ☑ Mar ☑ Apr ☑ May ☑ Jun ☑ Jul ☑ Aug ☑ Sep ☑ Oct ☑ Nov ☑ Dec

3.22 Land Application Rate is based on:
☐ Nutrient Management Plan (N&P)
☑ Hydraulic Loading 1.3 in/hr maximum infiltration rate for the soil
☒ Other (describe) Maximum & average expected precipitation

3.30 Equipment type: ☐ Sprinklers ☐ Gated pipe ☐ Center pivot ☐ Traveling gun ☑ Other (describe) 2,000 gal. water truck
Equipment Flow Capacity: 4000 Gallons per hour 36 Total hours of operation per year

3.40 Public Access Restrictions for irrigation sites: ☑ Site is Fenced ☐ Wastewater disinfection prior to irrigation
☐ Other (describe): _____

3.50 Separation distance (in feet) from the outside edge of the wetted irrigation area to down gradient features:
200' Permanent flowing stream ____ Losing Stream ____ Intermittent (wet weather) stream ____ Lake or pond
200' Property boundary ____ Dwellings 5,000' Water supply well >1 mi. Other (describe) _____

3.60 SOILS INFORMATION: Use information from the County Soil Survey, NRCS, or professional soil scientist.
Soil Series Name Bearthicket silt loam Depth of bedrock 6.7 Feet Depth of water table 6.7 Feet
Soil Infiltration rate in inches/hour (in/hr) for most restrictive layer within the following soil depth ranges:
1.3 In/hr for 0-12 in soil depth 1.3 In/hr for 12-24 inch soil depth 1.3 In/hr for 24-60 inch soil depth

3.70 Include a recent Geologic Report by the Department's Geological Survey and Resource Assessment Division with your construction permit. A report has been requested and will be forwarded to you as soon as we receive it.

3.80 Attach a current copy of the Operation and Maintenance (O&M) Plan for the irrigation system. Date of O&M Plan: 5/25/2011
See attached Truck Inspection Checklist.

3.81 Attach a site map showing topography, storage basins, irrigation sites, property boundary, streams, wells, roads, dwellings and other pertinent features.

3.82 Attach a facility sketch showing treatment units, storage basins, pipelines, irrigation equipment, application sites and other features.

4.00 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment.

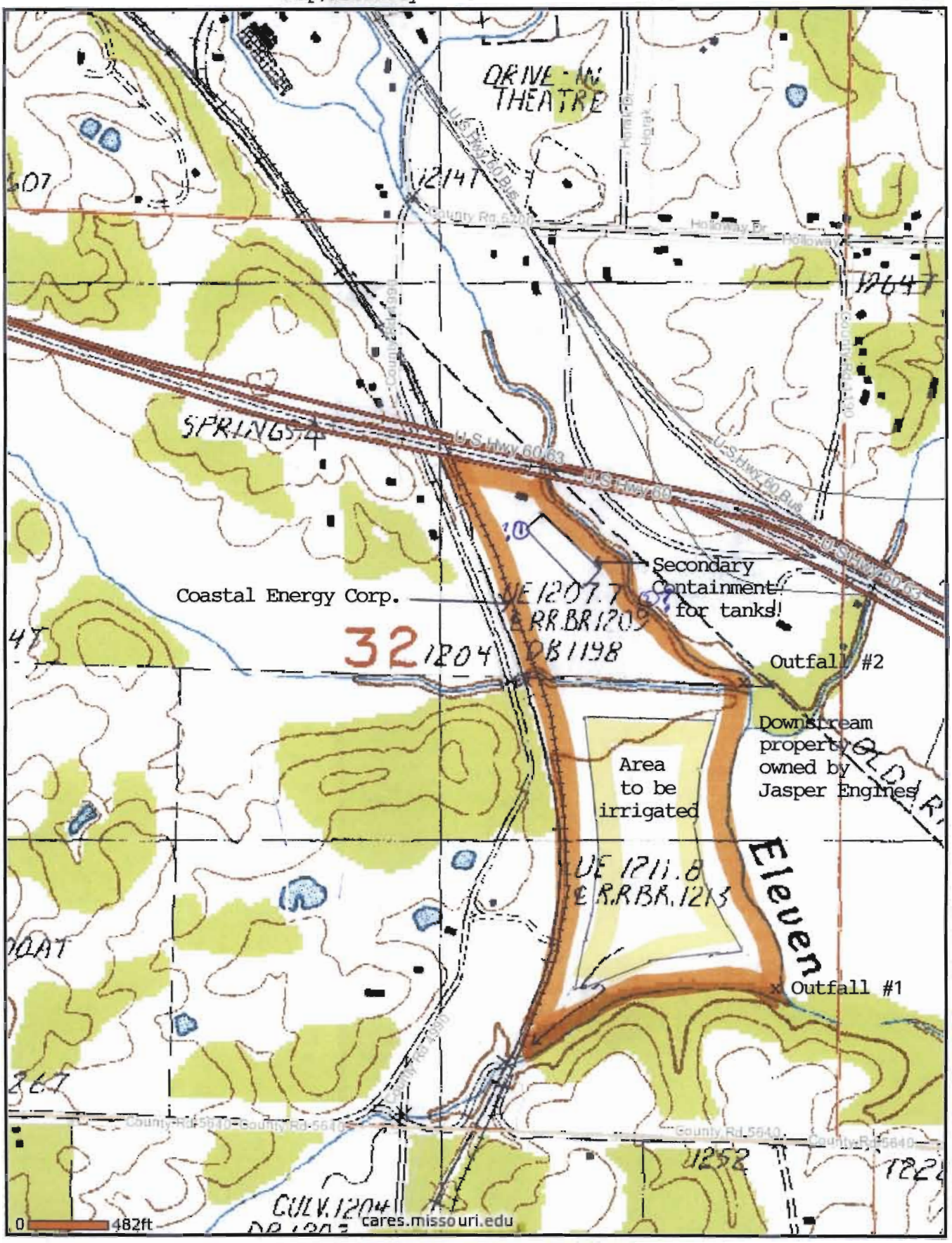
CONSULTING ENGINEER – Name, Official Title and Engineering Firm (TYPE OR PRINT)	TELEPHONE NUMBER (area code and number)
Curtis Heider, Owner, Heider Environmental Consulting	(573) 445-3033
SIGNATURE Curt Heider	DATE SIGNED 9/22/11
OWNER OR AUTHORIZED REPRESENTATIVE – Name and Official Title (TYPE OR PRINT)	TELEPHONE NUMBER (area code and number)
David Montgomery, President	(417) 469-2777
SIGNATURE David Montgomery	DATE SIGNED 9-27-11

Truck Inspection Checklist		
Truck #:	**Date:**	**Mechanic:**
Components:	**Checked:**	**Repairs:**
D.O.T.		
Check License Expiration Date		
Gauges and Lights		
Seat Belts		
Glass and Mirrors		
Wipers and Horn		
Clutch Pedal-Free Travel		
Steering-No Free Travel		
Emergency Equipment-Triangles, Spare Fuses		
Fire Extinguisher-Minimum 5 LB.		
Cooling System-Radiator & Hoses		
Oil Level and Condition, Check for Leaking Oil		
Battery-Corrosion, Loose Terminals		
Fuel Tank-Leaks, Mounted Secure		
Brakes, Brake Chamber, Slack Adjusters		
Drive Line U-Joints		
Frame-Rust, Cracks in Welds, Leaf Springs		
Tires-Tread Depth, Condition,		
Wheels-No Rust, Lugs Tight, Wheel Seals		
Exhaust leaks, Check for Rust, Bad Clamps		
Engine Running-Check for Leaks		
Transmission-Check for Leaks		

Comments:

MECHANIC SIGNATURE:	**DATE:**

Coastal Energy Corporation
Site Map/Facility Sketch



September 22, 2011

Mr. Tim Southers
Missouri Department of Natural Resources
Southeast Regional Office
2155 North Westwood Blvd.
Poplar Bluff, MO 63901

Subject: "No Discharge" Permit Application for Coastal Energy Corporation

Dear Mr. Southers:

Attached is the "No Discharge" Permit Application for Coastal Energy Corporation, consisting of Form A, Form I, the "No Degradation Evaluation" form, and attachments. (This site formerly had permit MO-G491126?)

Please call me at 573-445-3033 if you have any questions.

Sincerely,

Curtis Heider
Heider Environmental Consulting

CH

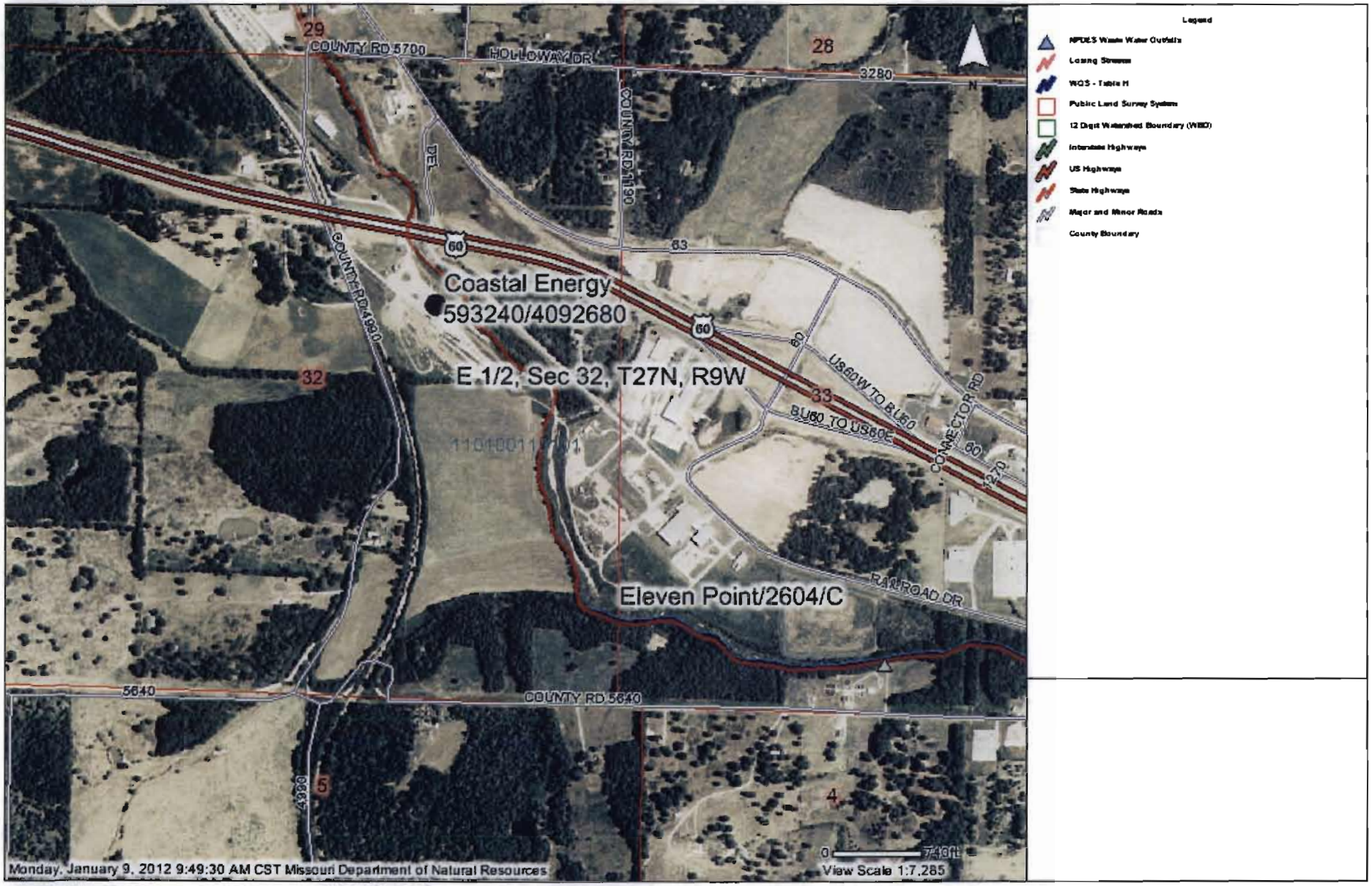
Enclosure: Permit Application

c: Mr. Jeff Cunningham, Coastal Energy Corporation

RECEIVED
SEP 28 2011
By

Heider Environmental Consulting Phone: 573.445.3033 Cell: 573.639.1410 Fax: 573.445.3058 Email: heiderenv@centurytel.net

Advanced Map Viewer



Missouri Department of Natural Resources

Howell County
Coastal Energy Corporation
MO0136883

STATE OF MISSOURI

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

January 23, 2012

Coastal Energy Corporation
Mr. Jeff Cunningham
P.O. Box 218
Willow Springs, MO 65793

Dear Permittee:

Enclosed please find a draft Missouri State Operating Permit for the Coastal Energy Corporation. In accordance with Chapter 640.016.2 RSMo, the Department of Natural Resources is offering you this opportunity to review the draft permit for non-substantive drafting errors and any other technical comments prior to Public Notice. This draft permit will is tentatively scheduled to be placed on public notice February 17, 2012.

Comments must be received within 15 working days (February 14, 2012) to be considered. The comments must be in written form and can be e-mailed, faxed or mailed. If you would like to comment on the enclosed draft permit, please feel free to provide comments via e-mail at tim.southards@dnr.mo.gov, by fax at (573)840-9754 or by mail at Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, MO 63901. If you have any questions about this letter or would like to schedule a meeting to discuss the permit, please feel free to contact me by phone at (573)840-9750.

Sincerely,

SOUTHEAST REGIONAL OFFICE

Tim Southards, P.E.
Environmental Engineer

TS/kv

Enclosure

Missouri Department of Natural Resources

PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: February 17, 2012

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, ATTN: Gary L. Gaines, P.E., Regional Director. **Please include the permit number in all comment letters.**

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be received or postmarked by 5:00 pm on March 18, 2012. The department will consider all written comments, including emails, faxes and letters, in the formulation of all final determinations regarding the applications. E-mail comments will be accepted at the following address: seropublicnoticenpdes@dnr.mo.gov. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, http://www.dnr.mo.gov/env/wpp/permits/permit-pn.htm, or at the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, MO 63901, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended

Permit No.:	MO0136883
Owner:	Coastal Energy Corporation
Owner's Address:	P.O. Box 218, Willow Springs, MO 65793
Continuing Authority:	Same as above
Continuing Authority's Address:	Same as above
Facility Name:	Coastal Energy Corporation
Facility Address:	1 Coastal Drive, Willow Springs, MO 65793
Legal Description:	E ½, Sec. 32, T27N, R9W, Howell County
UTM Coordinates:	#001: X=593240, Y=4092680 #002:X=593436, Y=4092513
Receiving Stream:	Eleven Point River (U)
First Classified Stream and ID:	Eleven Point River (C) 2604
USGS Basin & Sub-watershed No.:	(11010011-0101)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 and #002 - Industrial Stormwater - SIC #2951 - **Certified Operator Not Required**
Stormwater from Fuel Storage Secondary Containment and /Land Application
Design flow is less than 1 MGD.

Land Application:

Irrigation areas: 28 acres at design loading
Application rates/acre: 1/8 inch/hour; 1 inch/day; 5 inches/week; 40 inches/year
Field slopes: less than 1 percent
Equipment type: Truck; Vegetation: Grass
Application rate is based on: hydraulic loading rate
This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date — Sara Parker Pauley, Director, Department of Natural Resources

Expiration Date — Gary L. Gaines, P.E., Director, Southeast Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 – Fuel Storage Secondary Containment (Notes 1 & 2)						
Rainfall	Inches	*			daily	total
Volume Pumped	Gallons	*			daily	total
Outfall #002 – No Discharge Stormwater (Notes 1 & 2)						
Rainfall	inches	*			daily	total
Volume Pumped	gallons	*			daily	total
Outfall #001 and #002 – Irrigated Stormwater						
Ethylbenzene	mg/L	0.32		0.32	Once/month	Grab
Oil and Grease	mg/L	15		10	Once/month	Grab
Total Petroleum Hydrocarbons***	mg/L	10		10	Once/month	Grab
pH - Units	SU	**		**	Once/month	Grab
Ethanol	mg/L	*		*	Once/month	Grab
Volume Irrigated	gallons	*			Daily	Total
Application Area	acres	*			Daily	Total
Application Rate	inches/ acre	*			Daily	Total

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE January 28, _____.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitor and report.

** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.

*** The suggested analytical method for testing TPH is non-Halogenated Organic by Gas Chromatography method 8015 (also known as OA1 and OA2); however, if the permittee so desires to use other approved testing methods (i.e. EPA 1664), they may do so.

Note 1 – No-discharge facility requirements. Stormwater shall be stored and land applied during suitable conditions so that there is no-discharge from the facility or irrigation site. An emergency discharge may occur when excess stormwater has accumulated above feasible irrigation rates due to precipitation exceeding the 1-in-10 year 365 day rainfall or the 25-year 24-hour storm event.

Note 2 -- Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period. The report shall include the following:

(a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

(b) The number of days the facility discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed.

C. SPECIAL CONDITIONS

1. Emergency Discharge. Outfall 002 may only discharge if rainfall exceeds the 1 in 10 year (Data taken from the Missouri Climate Atlas) or the 24 hour, 25 year (Data taken from NRCS Urban Hydrology for Small Watersheds) rainfall events. **Discharge for any other reason shall constitute a permit violation and shall be recorded in accordance with Standard**

C. SPECIAL CONDITIONS (continued)

Conditions, Part 1, Section B.2.b. Monitoring shall take place once per day while discharging. Test results are due on the 28th day of the month after the cessation of the discharge. Permittee shall monitor for the following constituents:

Parameter	Benchmark
Total Suspended Solids	100 mg/L
pH – Units	6.5 – 9.0 Standard Units
Oil & Grease	10 mg/L
Settleable Solids	1.0 mL/L/hr

2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
   (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
      (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
      (2) controls any pollutant not limited in the permit.
   (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
   (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

   The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

3. All outfalls must be clearly marked in the field.

4. Changes in Discharges of Toxic Substances

   The permittee shall notify the Director as soon as it knows or has reason to believe:
   (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
      (1) One hundred micrograms per liter (100 µg/L);
      (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
      (4) The level established in Part A of the permit by the Director.
   (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
   (c) That the effluent limit established in part A of the permit will be exceeded.

5. Report as no-discharge when a discharge does not occur during the report period.

6. Water Quality Standards
   (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
   (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

      (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
      (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
      (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
      (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;

C. SPECIAL CONDITIONS (continued)

(5) There shall be no significant human health hazard from incidental contact with the water;
(6) There shall be no acute toxicity to livestock or wildlife watering;
(7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
(8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

(a) An assessment of all storm water discharges associated with this facility. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
(b) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water.
(c) The SWPPP must include a schedule for monthly site inspections and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. The Department must be notified within fifteen (15) days by letter of any corrections of deficiencies. Deficiencies that consist of minor repairs or maintenance must be corrected within seven (7) days. Deficiencies that require additional time or installation of a treatment device to correct should be detailed in the written notification. Installation of a treatment device, such as an oil water separator, may require a construction permit. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
(d) A provision for designating an individual to be responsible for environmental matters.
(e) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.

8. Permittee shall adhere to the following minimum Best Management Practices:
(a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
(b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
(c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
(d) Provide good housekeeping practices on the site to keep solid waste from entry into waters of the state.
(e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.

9. The purpose of the SWPPP and the BMPs listed therein is to prevent pollutants from entering waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR20-2.010(56)] of waters of the state, or failed to achieve compliance with benchmarks. Corrective action means the facility took steps to eliminate the deficiency.

10. This permit does not authorize the discharge of spilled materials or petroleum products drained from any equipment (transformers, trucks, cars, bulldozers, motorcycles, etc.). All spills must be **cleaned up** within 24 hours or as soon as possible, and a written report of the incident supplied with the facility's Discharge Monitoring Report. The following spills must be **reported** to the department at the earliest practicable moment, but no greater than 24 hours after the spill occurs:
(a) Any spill, of any material, that leaves the property of the facility;
(b) Any spill, of any material outside of secondary containment and exposed to precipitation, greater than 25 gallons or equivalent volume of solid material.

C. SPECIAL CONDITIONS (continued)

The department may require the submittal of a written report detailing measures taken to clean up the spill within 5 days of the spill. Whether the written report is submitted with the Discharge Monitoring Report or required to be submitted within 5 days, it must include the type of material spilled, volume, date of spill, date clean-up completed, clean-up method, and final disposal method. If the spill occurs outside of normal business hours, or if the permit holder cannot reach regional office staff for any reason, the permit holder is instructed to report the spill to the department's 24 hour Environmental Emergency Response hotline at (573) 634-2436. Leaving a message on a department staff member voice-mail does not satisfy this reporting requirement. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the Noncompliance Reporting requirement found in Standard Conditions Part I.

Federal Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

11. This permit does not authorize the discharge of waters other than storm waters. It does not authorize discharges of domestic, cooling water or process wastewaters.

12. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.

13. Once a month on workdays, the tank system shall be visually inspected to identify problem areas that could lead to a leak. Identified problems should be repaired immediately. Areas to inspect include tank foundations, connections, coatings, tank walls, and the piping system for corrosion, leaks, or other physical damage that may weaken the tank system. A log of such inspections and findings shall be kept on-site for a period of five years and made available to staff of the Department of Natural Resources for viewing upon request.

14. Wastewater Irrigation System.
    a. Discharge Reporting. Any unauthorized discharge from the lagoon or irrigation system shall be reported to the department as soon as possible but always within 24 hours. Discharge is allowed only as described in the Facility Description and Effluent Limitations sections of this permit.

    b. Irrigation Design. Permittee shall operate the land application system in accordance with the design parameters listed in the Facility Description section of this permit:

        (1) No-Discharge System. When the Facility Description is "No-Discharge", wastewater must be stored and irrigated at appropriate times. There shall be no-discharge from the irrigation site or storage lagoon except due to precipitation exceeding either the 1-in-10 year rainfall event for the design storage period or the 25-year-24-hour rainfall event.

    c. Emergency Spillway. Lagoons and earthen storage basins should have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm. The department may waive the requirement for overflow structures on small existing basins.

    d. General Irrigation Requirements. The wastewater irrigation system shall be operated so as to provide uniform distribution of irrigated wastewater over the entire irrigation site. A complete ground cover of vegetation shall be maintained on the irrigation site unless the system is approved for row crop irrigation. Wastewater shall be land applied only during daylight hours. The wastewater irrigation system shall be capable of irrigating the annual design flow during an application period of less than 100 days or 800 hours per year.

    e. Saturated/Frozen Conditions. There shall be no irrigation during frozen, snow covered, or saturated soil conditions.

    f. Buffer Zones. There shall be no irrigation within 300 feet of any down gradient pond, lake, sinkhole, losing stream or water supply withdrawal; 100 feet of gaining streams or tributaries; 150 feet of dwelling; or 50 feet of the property line.

    g. Public Access Restrictions. Public access shall not be allowed to the irrigation site(s).

    h. Equipment Checks during Irrigation. The irrigation system and application site shall be visually inspected at once/day during wastewater irrigation to check for equipment malfunctions and runoff from the irrigation site.

Missouri Department of Natural Resources
FACT SHEET
FOR THE PURPOSE OF INITIAL ISSUANCE
OF
MO0136883
COASTAL ENERGY CORPORATION

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Major ☐, Minor ☐, Industrial Facility ☒; Variance ☐;
Master General Permit ☐; General Permit Covered Facility ☐; and/or permit with widespread public interest ☐.

Part I – Facility Information

Facility Type: IND
Facility SIC Code(s): 2951

Facility Description:
Stormwater from Fuel Storage Secondary Containment and /Land Application
Design flow is less than 1 MGD.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

☒, - No.

Application Date: 09-28-2011
Expiration Date: N/A
Last Inspection: N/A In Compliance ☐; Non-Compliance ☐

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	Varies	No-Discharge	Stormwater	0.58
002	Varies	No-Discharge	Stormwater	0.58

Outfall #001 & #002
Legal Description: E ½, Sec. 32, T27N, R9W, Howell County
UTM Coordinates: 001: X=593240, Y=4092680 002:X=593436, Y=4092513

Receiving Stream: Eleven Point River (U)
First Classified Stream and ID: Eleven Point River (C) 2604
USGS Basin & Sub-watershed No.: (11010011-0101)

Receiving Water Body's Water Quality & Facility Performance History:

Facility sits on the headwaters of the Eleven Point River, as such, facility is not permitted to discharge and is not eligible for applicable general permits.

Comments:
Outfall 002 is a valve within the bermed area that discharges to the Eleven Point River. Discharge from this valve is not permitted except for the storm events specified in the permit. All collected stormwater is pumped and sprayed on field south of the property.

Part II – Operator Certification Requirements

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable ☒; This facility is not required to have a certified operator.

Part III – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:
As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]: ☐
- Lake or Reservoir [10 CSR 20-7.015(3)]: ☐
- Losing [10 CSR 20-7.015(4)]: ☐
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]: ☐
- Special Stream [10 CSR 20-7.015(6)]: ☒
- Subsurface Water [10 CSR 20-7.015(7)]: ☐
- All Other Waters [10 CSR 20-7.015(8)]: ☐

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	EDU**
Eleven Point River	U	-	General, Losing	11010011-0101	Ozark/ Black/ Current
Eleven Point River	C	2604	AQL, CLF, LWW, WBC(B)		

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).
** - Ecological Drainage Unit

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Eleven Point River (U)	0	0	0

MIXING CONSIDERATIONS TABLE:
Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].
Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:
As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable ☒;
The facility utilizes no discharge land application.

ANTI-BACKSLIDING:
A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

☒ - New facility, backsliding does not apply.

ANTIDEGRADATION:
In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

☒ - New and/or expanded discharge, please see APPENDIX #1 – ANTIDEGRADATION ANALYSIS

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:
As per [10 CSR 20-6.010(3)(B)], …An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:
Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: http://dnr.mo.gov/env/wpp/pub/index.html, items WQ422 through WQ449.

☒ Not applicable;
This condition is not applicable to the permittee for this facility.

COMPLIANCE AND ENFORCEMENT:
Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ☒;
The permittee/facility is not currently under Water Protection Program enforcement action.

PRETREATMENT PROGRAM:
The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

Not Applicable ☒;
The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

REASONABLE POTENTIAL ANALYSIS (RPA):
Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Not Applicable ☒;
A RPA was not conducted for this facility.

REMOVAL EFFICIENCY:
Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD_5) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

Not Applicable ☒;
Influent monitoring is not being required to determine percent removal.

SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):
Sanitary Sewer Overflows (SSOs) are defined as an untreated or partially treated sewage release are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSO's have a variety of causes including blockages, line breaks, and sewer defects that allow excess storm water and ground water to (1) enter and overload the collection system, and (2) overload the treatment facility. Additionally, SSO's can be also be caused by lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations.

Additionally, Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

☒ - Not applicable. This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

SCHEDULE OF COMPLIANCE (SOC):
A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ☒;
This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities: (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable ☒;
A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

VARIANCE:
As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable ☒;
This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:
As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable ☒;
Wasteload allocations were not calculated.

WLA MODELING:
There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable ☒;
A WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARDS:
Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:
A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Applicable ☐;
Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(3)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§§644.051.3

requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc…); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by all facilities meeting the following criteria:

Not Applicable ☒;
At this time, the permittee is not required to conduct WET test for this facility.

40 CFR 122.41(M) - BYPASSES:
The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass, which includes blending, is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

☒ - Not Applicable, this facility does not bypass.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):
Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ☒;
This facility does not discharge to a 303(d) listed stream.

Part V – Effluent Limits Determination

Outfall #001 and #002
Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Rainfall	Inches	9	*				
Volume Pumped	Gallons	9	*				
Ethylbenzene	mg/L	2	0.32		0.32		
Oil and Grease	mg/L	2	15		10		
Total Petroleum Hydrocarbons	mg/L		10		10		
pH - Units	SU	2	6.5-9.0		6.5-9.0		
Ethanol	mg/L	9	*		*		
Volume Irrigated	gallons	9	*				
Application Area	acres	9	*				
Application Rate	inches/ acre	9	*				

* - Monitoring requirement only.
** - For DO the Daily Maximum is a Daily Minimum and the Monthly Average is a Monthly Average Minimum.

*** - # of colonies/100mL; the Monthly Average for *E. coli* is a geometric mean.
**** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

1. State or Federal Regulation/Law
2. Water Quality Standard (includes RPA)
3. Water Quality Based Effluent Limits
4. Lagoon Policy
5. Ammonia Policy
6. Antidegradation Review
7. Antidegradation Policy
8. Water Quality Model
9. Best Professional Judgment
10. TMDL or Permit in lieu of TMDL
11. WET Test Policy

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- **Ethylbenzene, Oil and Grease, Total Petroleum Hydrocarbons, pH**. Parameters are consistent with the effluent parameters found in the General Operating Permit for Fuel Storage.

- **Rainfall, Volume Irrigated, Volume Pumped, Irrigation Area. No-Discharge Facility.** Necessary parameters to determine compliance with No-Discharge Requirements in 10 CSR 20-6.015.

PART VI: Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

☒ Not Applicable;
The Department is not required to determine findings of affordability because the facility is not a **combined or separate sanitary sewer system for a publically-owned treatment works.**

Part VII – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE:
The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

DATE OF FACT SHEET: JANUARY 19, 2012

COMPLETED BY:

TIM SOUTHARDS
ENVIRONMENTAL ENGINEER
MISSOURI DEPARTMENT OF NATURAL RESOURCES
SOUTHEAST REGIONAL OFFICE
(573)840-9750

Part VII – Appendices

Appendix 1: Antidegradation Evaluation

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

NO DEGRADATION EVALUATION
CONCLUSION OF ANTIDEGRADATION REVIEW

(Submit this form with the appropriate Permit Application)

1. FACILITY

NAME		COUNTY	
Coastal Energy Corporation		Howell	
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
1 Coastal Drive	Willow Springs	MO	65793
FACILITY CONTACT		TELEPHONE NUMBER WITH AREA CODE	
Jeff Cunningham		417-469-2777	

2. NO DEGRADATION OPTIONS

- ☐ Renewal without changes
- ☐ Sewer extensions
- ☐ CSO elimination projects
- ☑ No-discharge with land application
- ☐ No-discharge with subsurface irrigation
- ☐ Recycle or reuse of effluent
- ☐ Discharge to a regional wastewater collection and treatment system
- ☐ Addition or replacement of disinfection system for an existing wastewater facility: Ultraviolet or Ozone

  The facility will be required to meet regulatory effluent limits for bacteria.
- ☐ Addition or replacement for chlorination or dechlorination disinfection system of existing facility.

  The chlorination or dechlorination disinfection treatment system design must be for total removal of Total Residual Chlorine. Therefore, the facility will be required to meet the water quality-bases effluent limits determined by the permit writer or the following water quality-bases effluent limits:

Beneficial Use of Classified Water	MDL (µg/l)	AML (µg/l)
Warm-water fishery	17	8.2
Cold-water fishery	3.3	1.6

Note: These compliance limits for Total Residual Chlorine are much less than minimum quantification level, or ML, of 0.13. The facility will be required to meet regulatory effluent limits for bacteria.

- ☐ Other, please describe: _____

Consulted with Water Protection Staff:

NAME	DATE
Tim Southers	09/19/2011

3. NO DEGRADATION PROPOSED PROJECT SUMMARY

Coastal Energy Corporation has ethanol & diesel storage tanks within a concrete secondary containment structure. Since the location is in the floodplain for the Eleven Point River, the DNR Water Pollution Control Program is requiring an application for a site-specific "no-discharge" permit. Any storm water collected with the secondary containment structure will be examined to ensure that there are no visible contaminants, then pumped into a 2,000 gallon water truck which will use the water to irrigate a 40-acre hay field adjacent to and south of the property where the tanks are located. Since a 200' buffer will be maintained between the irrigated area and the river/property lines, the irrigation will be limited to the 28 acres in the center of the 40-acre field.

CONSULTANT: I have prepared or reviewed this form and all attached reports and documentation. The conclusion proposed is consistent with the Antidegradation Implementation Procedure and current state and federal regulations.

SIGNATURE	DATE
Curtis Heider	9/22/11

PRINT NAME

Curtis Heider

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
573-445-3033	heiderenv@centurytel.net

Owner: I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
David Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Continuing Authority: Continuing Authority is the permanent organization that will be responsible for the operation, maintenance and modernization of the facility. The regulatory requirement regarding continuing authority is available at www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf.

I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
David Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Return completed form with the appropriate Permit Application to:

Missouri Department of Natural Resources
Water Protection Program
Water Pollution Control Branch
P.O. Box 176
Jefferson City, MO 65102

Coastal Energy
MO0136883, Howell Cou

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

February 17, 2012

Jasper Engines
300 Industrial Drive
Willow Springs, MO 65793

Dear Property Owner:

Enclosed is a public notice regarding a State Operating Permit action for wastewater discharge for the Coastal Energy near Willow Springs, MO. Our records show that you are the first downstream property owner from a point of discharge for the facility. As part of the permitting process, we are hereby notifying you of the pending action. You may make comments on the proposed permit and your comments will be considered before the permit is issued.

Enclosed with this letter is a Public Notice sheet that provides details on the permitting process and the procedure and deadline for making comments.

Also enclosed with this letter is the first page of the proposed permit, which provides details on the applicant, the location of the discharge, and the discharge facility. Please note that the proposed permit is in draft form.

Any questions or comments should be sent to the address on the enclosed Public Notice sheet.

Sincerely,

SOUTHEAST REGIONAL OFFICE

Gary L. Gaines, P.E.
Regional Director

GLG:tsk

Enclosure

Coastal Energy
MO0136883, Howell Cou

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

Coastal Energy Corporation
1 Coastal Drive
WILLOW SPRINGS, MO 65793

Subject: Public Notice for Proposed State Operating Permit For Coastal Energy

Dear Permittee:

The enclosed public notice pertains to your proposed State Operating Permit.

Federal regulations required issuance of this public notice to inform interested persons of the agency's intent to issue an operating permit to discharge, and allows a 30-day period for comment.This public notice package should be posted on a bulletin board at your place of business. If response to the public notice indicates significant interest, a public hearing or adjudicatory hearing may be held. Based on comments received, or the results of a hearing, the proposed permit will be modified and issued or possibly denied.

Any questions you may have should be sent to the address indicated on the enclosed public notice.

Sincerely,
Southeast Regional Office

Gary L. Gaines, P.E.
Regional Director

GLG/tsk

Enclosure

Coastal Energy
MO0136883, Howell Cou

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

Postmaster
United States Post Office
WILLOW SPRINGS, MO 65793

Subject: Public Notice for Proposed State Operating Permit For Coastal Energy Rail Spur

Enclosed is a public notice regarding a proposed State Operating Permit. It is required that this notice be posted in the post office and "public places of the municipality nearest the proposed discharge" in accordance with 10 CSR 20-6.020(1)(E)1. We will appreciate your assistance in posting this notice on a public bulletin board in your office until the expiration date for public comment stated therein. Please sign and return the enclosed card to this agency.

Sincerely,
Southeast Regional Office

Gary L. Gaines, P.E.
Regional Director

GLG/[illegible]k

Enclosure

Coastal Energy
MO0136883, Howell Cou

STATE OF MISSOURI
Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director
DEPARTMENT OF NATURAL RESOURCES
www.dnr.mo.gov

Sharon Oliver
123 East Main St.
Willow Springs, MO 65793

Subject: Public Notice for Proposed State Operating Permit for Coastal Energy Rail Spur

Enclosed is a public notice regarding a proposed State Operating Permit. It is required that this notice be posted in the "public places of the municipality nearest the proposed discharge" in accordance with 10 CSR 20-6.020(1)(E)1. We will appreciate your assistance in posting this notice on a public bulletin board in your office until the expiration date for public comment stated therein.

In order that we may be assured of fulfilling all legal requirements, we ask that the enclosed card be signed and returned within seven (7) days.

Thank you for your cooperation in this matter.

Sincerely,
Southeast Regional Office

Gary L. Gaines, P.E.
Regional Director

GLG/tsk

Enclosure

Missouri Department of Natural Resources

PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: February 17, 2012

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, ATTN: Gary L. Gaines, P.E., Regional Director. **Please include the permit number in all comment letters.**

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be received or postmarked by 5:00 pm on March 18, 2012. The department will consider all written comments, including emails, faxes and letters, in the formulation of all final determinations regarding the applications. E-mail comments will be accepted at the following address: seropublicnoticenpdes@dnr.mo.gov. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, http://www.dnr.mo.gov/env/wpp/permits/permit-pn.htm, or at the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, MO 63901, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended

Permit No.:	MO0136883
Owner:	Coastal Energy Corporation
Owner's Address:	P.O. Box 218, Willow Springs, MO 65793
Continuing Authority:	Same as above
Continuing Authority's Address:	Same as above
Facility Name:	Coastal Energy Corporation
Facility Address:	1 Coastal Drive, Willow Springs, MO 65793
Legal Description:	E ½, Sec. 32, T27N, R9W, Howell County
UTM Coordinates:	#001: X=593240, Y=4092680 #002:X=593436, Y=4092513
Receiving Stream:	Eleven Point River (U)
First Classified Stream and ID:	Eleven Point River (C) 2604
USGS Basin & Sub-watershed No.:	(11010011-0101)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 and #002 - Industrial Stormwater - SIC #2951 - **Certified Operator Not Required**
Stormwater from Fuel Storage Secondary Containment and /Land Application
Design flow is less than 1 MGD.

Land Application:

Irrigation areas: 28 acres at design loading
Application rates/acre: 1/8 inch/hour; 1 inch/day; 5 inches/week; 40 inches/year
Field slopes: less than 1 percent
Equipment type: Truck; Vegetation: Grass
Application rate is based on: hydraulic loading rate

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Sara Parker Pauley, Director, Department of Natural Resources

Expiration Date

Gary L. Gaines, P.E., Director, Southeast Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 – Fuel Storage Secondary Containment (Notes 1 & 2)						
Rainfall	Inches	*			daily	total
Volume Pumped	Gallons	*			daily	total
Outfall #002 – No Discharge Stormwater (Notes 1 & 2)						
Rainfall	inches	*			daily	total
Volume Pumped	gallons	*			daily	total
Outfall #001 and #002 – Irrigated Stormwater						
Ethylbenzene	mg/L	0.32		0.32	Once/month	Grab
Oil and Grease	mg/L	15		10	Once/month	Grab
Total Petroleum Hydrocarbons***	mg/L	10		10	Once/month	Grab
pH - Units	SU	**		**	Once/month	Grab
Ethanol	mg/L	*		*	Once/month	Grab
Volume Irrigated	gallons	*			Daily	Total
Application Area	acres	*			Daily	Total
Application Rate	inches/ acre	*			Daily	Total

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE January 28, _____.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitor and report.

** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.

*** The suggested analytical method for testing TPH is non-Halogenated Organic by Gas Chromatography method 8015 (also known as OA1 and OA2); however, if the permittee so desires to use other approved testing methods (i.e. EPA 1664), they may do so.

Note 1 – No-discharge facility requirements. Stormwater shall be stored and land applied during suitable conditions so that there is no-discharge from the facility or irrigation site. An emergency discharge may occur when excess stormwater has accumulated above feasible irrigation rates due to precipitation exceeding the 1-in-10 year 365 day rainfall or the 25-year 24-hour storm event.

Note 2 – Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period. The report shall include the following:

(a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

(b) The number of days the facility discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed.

C. SPECIAL CONDITIONS

1. Emergency Discharge. Outfall 002 may only discharge if rainfall exceeds the 1 in 10 year (Data taken from the Missouri Climate Atlas) or the 24 hour, 25 year (Data taken from NRCS Urban Hydrology for Small Watersheds) rainfall events. **Discharge for any other reason shall constitute a permit violation and shall be recorded in accordance with Standard**

C. SPECIAL CONDITIONS (continued)

Conditions, Part 1, Section B.2.b. Monitoring shall take place once per day while discharging. Test results are due on the 28th day of the month after the cessation of the discharge. Permittee shall monitor for the following constituents:

Parameter	Benchmark
Total Suspended Solids	100 mg/L
pH – Units	6.5 – 9.0 Standard Units
Oil & Grease	10 mg/L
Settleable Solids	1.0 mL/L/hr

2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
   (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
      (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
      (2) controls any pollutant not limited in the permit.
   (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
   (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

   The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

3. All outfalls must be clearly marked in the field.

4. Changes in Discharges of Toxic Substances

   The permittee shall notify the Director as soon as it knows or has reason to believe:
   (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
      (1) One hundred micrograms per liter (100 µg/L);
      (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
      (4) The level established in Part A of the permit by the Director.
   (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
   (c) That the effluent limit established in part A of the permit will be exceeded.

5. Report as no-discharge when a discharge does not occur during the report period.

6. Water Quality Standards
   (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
   (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

      (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
      (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
      (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
      (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;

C. SPECIAL CONDITIONS (continued)

(5) There shall be no significant human health hazard from incidental contact with the water;
(6) There shall be no acute toxicity to livestock or wildlife watering;
(7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
(8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

(a) An assessment of all storm water discharges associated with this facility. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
(b) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water.
(c) The SWPPP must include a schedule for monthly site inspections and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. The Department must be notified within fifteen (15) days by letter of any corrections of deficiencies. Deficiencies that consist of minor repairs or maintenance must be corrected within seven (7) days. Deficiencies that require additional time or installation of a treatment device to correct should be detailed in the written notification. Installation of a treatment device, such as an oil water separator, may require a construction permit. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
(d) A provision for designating an individual to be responsible for environmental matters.
(e) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.

8. Permittee shall adhere to the following minimum Best Management Practices:
(a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
(b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
(c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
(d) Provide good housekeeping practices on the site to keep solid waste from entry into waters of the state.
(e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.

9. The purpose of the SWPPP and the BMPs listed therein is to prevent pollutants from entering waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR20-2.010(56)] of waters of the state, or failed to achieve compliance with benchmarks. Corrective action means the facility took steps to eliminate the deficiency.

10. This permit does not authorize the discharge of spilled materials or petroleum products drained from any equipment (transformers, trucks, cars, bulldozers, motorcycles, etc.). All spills must be **cleaned up** within 24 hours or as soon as possible, and a written report of the incident supplied with the facility's Discharge Monitoring Report. The following spills must be **reported** to the department at the earliest practicable moment, but no greater than 24 hours after the spill occurs:
(a) Any spill, of any material, that leaves the property of the facility;
(b) Any spill, of any material outside of secondary containment and exposed to precipitation, greater than 25 gallons or equivalent volume of solid material.

C. SPECIAL CONDITIONS (continued)

The department may require the submittal of a written report detailing measures taken to clean up the spill within 5 days of the spill. Whether the written report is submitted with the Discharge Monitoring Report or required to be submitted within 5 days, it must include the type of material spilled, volume, date of spill, date clean-up completed, clean-up method, and final disposal method. If the spill occurs outside of normal business hours, or if the permit holder cannot reach regional office staff for any reason, the permit holder is instructed to report the spill to the department's 24 hour Environmental Emergency Response hotline at (573) 634-2436. Leaving a message on a department staff member voice-mail does not satisfy this reporting requirement. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the Noncompliance Reporting requirement found in Standard Conditions Part I.

Federal Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

11. This permit does not authorize the discharge of waters other than storm waters. It does not authorize discharges of domestic, cooling water or process wastewaters.

12. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.

13. Once a month on workdays, the tank system shall be visually inspected to identify problem areas that could lead to a leak. Identified problems should be repaired immediately. Areas to inspect include tank foundations, connections, coatings, tank walls, and the piping system for corrosion, leaks, or other physical damage that may weaken the tank system. A log of such inspections and findings shall be kept on-site for a period of five years and made available to staff of the Department of Natural Resources for viewing upon request.

14. Wastewater Irrigation System.
    a. Discharge Reporting. Any unauthorized discharge from the lagoon or irrigation system shall be reported to the department as soon as possible but always within 24 hours. Discharge is allowed only as described in the Facility Description and Effluent Limitations sections of this permit.

    b. Irrigation Design. Permittee shall operate the land application system in accordance with the design parameters listed in the Facility Description section of this permit:

        (1) No-Discharge System. When the Facility Description is "No-Discharge", wastewater must be stored and irrigated at appropriate times. There shall be no-discharge from the irrigation site or storage lagoon except due to precipitation exceeding either the 1-in-10 year rainfall event for the design storage period or the 25-year-24-hour rainfall event.

    c. Emergency Spillway. Lagoons and earthen storage basins should have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm. The department may waive the requirement for overflow structures on small existing basins.

    d. General Irrigation Requirements. The wastewater irrigation system shall be operated so as to provide uniform distribution of irrigated wastewater over the entire irrigation site. A complete ground cover of vegetation shall be maintained on the irrigation site unless the system is approved for row crop irrigation. Wastewater shall be land applied only during daylight hours. The wastewater irrigation system shall be capable of irrigating the annual design flow during an application period of less than 100 days or 800 hours per year.

    e. Saturated/Frozen Conditions. There shall be no irrigation during frozen, snow covered, or saturated soil conditions.

    f. Buffer Zones. There shall be no irrigation within 300 feet of any down gradient pond, lake, sinkhole, losing stream or water supply withdrawal; 100 feet of gaining streams or tributaries; 150 feet of dwelling; or 50 feet of the property line.

    g. Public Access Restrictions. Public access shall not be allowed to the irrigation site(s).

    h. Equipment Checks during Irrigation. The irrigation system and application site shall be visually inspected at once/day during wastewater irrigation to check for equipment malfunctions and runoff from the irrigation site.

Missouri Department of Natural Resources
FACT SHEET
FOR THE PURPOSE OF INITIAL ISSUANCE
OF
MO0136883
COASTAL ENERGY CORPORATION

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Major ☐, Minor ☐, Industrial Facility ☒; Variance ☐;
Master General Permit ☐; General Permit Covered Facility ☐; and/or permit with widespread public interest ☐.

Part I – Facility Information

Facility Type: IND
Facility SIC Code(s): 2951

Facility Description:
Stormwater from Fuel Storage Secondary Containment and /Land Application
Design flow is less than 1 MGD.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

☒, - No.

Application Date: 09-28-2011
Expiration Date: N/A
Last Inspection: N/A In Compliance ☐; Non-Compliance ☐

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	Varies	No-Discharge	Stormwater	0.58
002	Varies	No-Discharge	Stormwater	0.58

Outfall #001 & #002
Legal Description: E ½, Sec. 32, T27N, R9W, Howell County
UTM Coordinates: 001: X=593240, Y=4092680 002:X=593436, Y=4092513

Receiving Stream: Eleven Point River (U)
First Classified Stream and ID: Eleven Point River (C) 2604
USGS Basin & Sub-watershed No.: (11010011-0101)

Receiving Water Body's Water Quality & Facility Performance History:

Facility sits on the headwaters of the Eleven Point River, as such, facility is not permitted to discharge and is not eligible for applicable general permits.

Comments:
Outfall 002 is a valve within the bermed area that discharges to the Eleven Point River. Discharge from this valve is not permitted except for the storm events specified in the permit. All collected stormwater is pumped and sprayed on field south of the property.

Part II – Operator Certification Requirements

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable ☒; This facility is not required to have a certified operator.

Part III – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:
As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

Missouri or Mississippi River [10 CSR 20-7.015(2)]: ☐
Lake or Reservoir [10 CSR 20-7.015(3)]: ☐
Losing [10 CSR 20-7.015(4)]: ☐
Metropolitan No-Discharge [10 CSR 20-7.015(5)]: ☐
Special Stream [10 CSR 20-7.015(6)]: ☒
Subsurface Water [10 CSR 20-7.015(7)]: ☐
All Other Waters [10 CSR 20-7.015(8)]: ☐

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	EDU**
Eleven Point River	U	-	General, Losing	11010011-0101	Ozark/ Black/ Current
Eleven Point River	C	2604	AQL, CLF, LWW, WBC(B)		

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).
** - Ecological Drainage Unit

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Eleven Point River (U)	0	0	0

MIXING CONSIDERATIONS TABLE:
Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].
Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:
As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable ☒;
The facility utilizes no discharge land application.

ANTI-BACKSLIDING:
A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

☒ - New facility, backsliding does not apply.

ANTIDEGRADATION:
In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

☒ - New and/or expanded discharge, please see **APPENDIX #1 – ANTIDEGRADATION ANALYSIS**

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:
As per [10 CSR 20-6.010(3)(B)], …An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:
Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: http://dnr.mo.gov/env/wpp/pub/index.html, items WQ422 through WQ449.

☒ Not applicable;
This condition is not applicable to the permittee for this facility.

COMPLIANCE AND ENFORCEMENT:
Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ☒;
The permittee/facility is not currently under Water Protection Program enforcement action.

PRETREATMENT PROGRAM:
The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

Not Applicable ☒;
The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

REASONABLE POTENTIAL ANALYSIS (RPA):
Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Not Applicable ☒;
A RPA was not conducted for this facility.

REMOVAL EFFICIENCY:
Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD_5) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

Not Applicable ☒;
Influent monitoring is not being required to determine percent removal.

SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):
Sanitary Sewer Overflows (SSOs) are defined as an untreated or partially treated sewage release are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSO's have a variety of causes including blockages, line breaks, and sewer defects that allow excess storm water and ground water to (1) enter and overload the collection system, and (2) overload the treatment facility. Additionally, SSO's can be also be caused by lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations.

Additionally, Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

☒ - Not applicable. This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

SCHEDULE OF COMPLIANCE (SOC):
A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ☒;
This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities: (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable ☒;
A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

VARIANCE:
As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable ☒;
This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:
As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable ☒;
Wasteload allocations were not calculated.

WLA MODELING:
There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable ☒;
A WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARDS:
Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:
A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Applicable ☐;
Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(3)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§§644.051.3

requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc…); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by all facilities meeting the following criteria:

Not Applicable ☒;
At this time, the permittee is not required to conduct WET test for this facility.

40 CFR 122.41(M) - BYPASSES:
The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass, which includes blending, is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

☒ - Not Applicable, this facility does not bypass.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):
Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ☒;
This facility does not discharge to a 303(d) listed stream.

Part V – Effluent Limits Determination

Outfall #001 and #002
Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Rainfall	Inches	9	*				
Volume Pumped	Gallons	9	*				
Ethylbenzene	mg/L	2	0.32		0.32		
Oil and Grease	mg/L	2	15		10		
Total Petroleum Hydrocarbons	mg/L		10		10		
pH - Units	SU	2	6.5-9.0		6.5-9.0		
Ethanol	mg/L	9	*		*		
Volume Irrigated	gallons	9	*				
Application Area	acres	9	*				
Application Rate	inches/ acre	9	*				

* - Monitoring requirement only.
** - For DO the Daily Maximum is a Daily Minimum and the Monthly Average is a Monthly Average Minimum.

*** - # of colonies/100mL; the Monthly Average for *E. coli* is a geometric mean.
**** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

1. State or Federal Regulation/Law
2. Water Quality Standard (includes RPA)
3. Water Quality Based Effluent Limits
4. Lagoon Policy
5. Ammonia Policy
6. Antidegradation Review
7. Antidegradation Policy
8. Water Quality Model
9. Best Professional Judgment
10. TMDL or Permit in lieu of TMDL
11. WET Test Policy

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- **Ethylbenzene, Oil and Grease, Total Petroleum Hydrocarbons, pH**. Parameters are consistent with the effluent parameters found in the General Operating Permit for Fuel Storage.

- **Rainfall, Volume Irrigated, Volume Pumped, Irrigation Area. No-Discharge Facility.** Necessary parameters to determine compliance with No-Discharge Requirements in 10 CSR 20-6.015.

PART VI: Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

☒ Not Applicable;
The Department is not required to determine findings of affordability because the facility is not a **combined or separate sanitary sewer system for a publically-owned treatment works.**

Part VII – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE:
The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

DATE OF FACT SHEET: JANUARY 19, 2012

COMPLETED BY:

TIM SOUTHARDS
ENVIRONMENTAL ENGINEER
MISSOURI DEPARTMENT OF NATURAL RESOURCES
SOUTHEAST REGIONAL OFFICE
(573)840-9750

Part VII – Appendices

Appendix 1: Antidegradation Evaluation

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

NO DEGRADATION EVALUATION
CONCLUSION OF ANTIDEGRADATION REVIEW

(Submit this form with the appropriate Permit Application)

1. FACILITY

NAME		COUNTY	
Coastal Energy Corporation		Howell	
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
1 Coastal Drive	Willow Springs	MO	65793
FACILITY CONTACT		TELEPHONE NUMBER WITH AREA CODE	
Jeff Cunningham		417-469-2777	

2. NO DEGRADATION OPTIONS

- ☐ Renewal without changes
- ☐ Sewer extensions
- ☐ CSO elimination projects
- ☑ No-discharge with land application
- ☐ No-discharge with subsurface irrigation
- ☐ Recycle or reuse of effluent
- ☐ Discharge to a regional wastewater collection and treatment system.
- ☐ Addition or replacement of disinfection system for an existing wastewater facility: Ultraviolet or Ozone

  The facility will be required to meet regulatory effluent limits for bacteria.
- ☐ Addition or replacement for chlorination or dechlorination disinfection system of existing facility.

  The chlorination or dechlorination disinfection treatment system design must be for total removal of Total Residual Chlorine. Therefore, the facility will be required to meet the water quality-bases effluent limits determined by the permit writer or the following water quality-bases effluent limits:

Beneficial Use of Classified Water	MDL (µg/l)	AML (µg/l)
Warm-water fishery	17	8.2
Cold-water fishery	3.3	1.6

Note: These compliance limits for Total Residual Chlorine are much less than minimum quantification level, or ML, of 0.13. The facility will be required to meet regulatory effluent limits for bacteria.

- ☐ Other, please describe: _____

Consulted with Water Protection Staff:

NAME	DATE
Tim Southers	09/19/2011

3. NO DEGRADATION PROPOSED PROJECT SUMMARY

Coastal Energy Corporation has ethanol & diesel storage tanks within a concrete secondary containment structure. Since the location is in the floodplain for the Eleven Point River, the DNR Water Pollution Control Program is requiring an application for a site-specific "no-discharge" permit. Any storm water collected with the secondary containment structure will be examined to ensure that there are no visible contaminants, then pumped into a 2,000 gallon water truck which will use the water to irrigate a 40-acre hay field adjacent to and south of the property where the tanks are located. Since a 200' buffer will be maintained between the irrigated area and the river/property lines, the irrigation will be limited to the 28 acres in the center of the 40-acre field.

CONSULTANT: I have prepared or reviewed this form and all attached reports and documentation. The conclusion proposed is consistent with the Antidegradation Implementation Procedure and current state and federal regulations.

SIGNATURE	DATE
Curtis Heider	9/22/11

PRINT NAME: Curtis Heider

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
573-445-3033	heiderenv@centurytel.net

Owner: I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
David Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Continuing Authority: Continuing Authority is the permanent organization that will be responsible for the operation, maintenance and modernization of the facility. The regulatory requirement regarding continuing authority is available at www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf.

I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
David Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Return completed form with the appropriate Permit Application to:

Missouri Department of Natural Resources
Water Protection Program
Water Pollution Control Branch
P.O. Box 176
Jefferson City, MO 65102

NO POSTAGE STAMP NECESSARY
POSTAGE HAS BEEN PREPAID

Department of Natural Resources
Southeast Regional Office
2155 North Westwood Blvd.
Poplar Bluff, MO 63901

3901+2439

The Public Notice For: COASTAL ENERGY MO0136883, HOWELL COUNTY

RECEIVED
FEB 23 2012

Was Posted at this address on 2.21.12
(DATE)

Building Name WILLOW SPRINGS POST OFFICE

Street Address 111 E 3RD ST

City WILLOW SPRINGS State Mo. Zip 65793

By STACY FALKENRATH POSTMASTER

Coastal Energy Corporation
MO0136883, Howell County

STATE OF MISSOURI

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

March 21, 2012

Coastal Energy Corporation
PO Box 218
Willow Springs, MO 65793

Dear Permittee:

Pursuant to the Federal Water Pollution Control Act, under the authority granted to the State of Missouri and in compliance with the Missouri Clean Water Law, we have issued and are enclosing your State Operating Permit to discharge from Coastal Energy Corporation.

Please read your permit and attached Standard Conditions. They contain important information on monitoring requirements, effluent limitations, sampling frequencies and reporting requirements.

Monitoring reports required by the special conditions must be submitted on a periodic basis. Copies of the necessary report forms are enclosed and should be mailed to the address listed below.

This permit is both your Federal Discharge Permit and your new State Operating Permit and replaces all previous State Operating Permits issued for this facility under this permit number. In all future correspondence regarding this facility, please refer to your State Operating Permit number and facility name as shown on page one of the permit.

If you were affected by this decision, you may appeal to have the matter heard by the administrative hearing commission. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission.

If you need additional forms or have any questions concerning this permit, please contact Tim Southards at (573) 840-9750 or at our Southeast Regional Office; 2155 N. Westwood Blvd., Poplar Bluff, MO 63901.

Sincerely,

Jackie D. Baker
Environmental Section Chief
Southeast Regional Office

JDB:ts

Enclosure

Recycled Paper

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended

Permit No.:	MO0136883
Owner:	Coastal Energy Corporation
Owner's Address:	P.O. Box 218, Willow Springs, MO 65793
Continuing Authority:	Same as above
Continuing Authority's Address:	Same as above
Facility Name:	Coastal Energy Corporation
Facility Address:	1 Coastal Drive, Willow Springs, MO 65793
Legal Description:	E ½, Sec. 32, T27N, R9W, Howell County
UTM Coordinates:	#001: X=593240, Y=4092680 #002:X=593436, Y=4092513
Receiving Stream:	Eleven Point River (U)
First Classified Stream and ID:	Eleven Point River (C) 2604
USGS Basin & Sub-watershed No.:	(11010011-0101)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 and #002 - Industrial Stormwater - SIC #2951 - **Certified Operator Not Required**
Stormwater from Fuel Storage Secondary Containment and /Land Application
Design flow is less than 1 MGD.

Land Application:
Irrigation areas: 28 acres at design loading
Application rates/acre: 1/8 inch/hour; 1 inch/day; 5 inches/week; 40 inches/year
Field slopes: less than 1 percent
Equipment type: Truck; Vegetation: Grass
Application rate is based on: hydraulic loading rate

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

March 21, 2012
Effective Date

Sara Parker Pauley
Sara Parker Pauley, Director, Department of Natural Resources

March 20, 2017
Expiration Date

Jackie D Baker
Jackie D. Baker, Environmental Section Chief, Southeast Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 – Fuel Storage Secondary Containment (Notes 1 & 2)						
Rainfall	Inches	*			daily	total
Volume Pumped	Gallons	*			daily	total
Outfall #002 – No Discharge Stormwater (Notes 1 & 2)						
Rainfall	inches	*			daily	total
Volume Pumped	gallons	*			daily	total
Outfall #001 and #002 – Irrigated Stormwater						
Ethylbenzene	mg/L	0.32		0.32	Once/month	Grab
Oil and Grease	mg/L	15		10	Once/month	Grab
Total Petroleum Hydrocarbons***	mg/L	10		10	Once/month	Grab
pH - Units	SU	**		**	Once/month	Grab
Ethanol	mg/L	*		*	Once/month	Grab
Volume Irrigated	gallons	*			Daily	Total
Application Area	acres	*			Daily	Total
Application Rate	inches/ acre	*			Daily	Total

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE January 28, 2013 .

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitor and report.

** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.

*** The suggested analytical method for testing TPH is non-Halogenated Organic by Gas Chromatography method 8015 (also known as OA1 and OA2); however, if the permittee so desires to use other approved testing methods (i.e. EPA 1664), they may do so.

Note 1 – No-discharge facility requirements. Stormwater shall be stored and land applied during suitable conditions so that there is no-discharge from the facility or irrigation site. An emergency discharge may occur when excess stormwater has accumulated above feasible irrigation rates due to precipitation exceeding the 1-in-10 year 365 day rainfall or the 25-year 24-hour storm event.

Note 2 – Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period. The report shall include the following:

(a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

(b) The number of days the facility discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed.

C. SPECIAL CONDITIONS

1. Emergency Discharge. Outfall 002 may only discharge if rainfall exceeds the 1 in 10 year (Data taken from the Missouri Climate Atlas) or the 24 hour, 25 year (Data taken from NRCS Urban Hydrology for Small Watersheds) rainfall events. **Discharge for any other reason shall constitute a permit violation and shall be recorded in accordance with Standard**

C. SPECIAL CONDITIONS (continued)

Conditions, Part 1, Section B.2.b. Monitoring shall take place once per day while discharging. Test results are due on the 28th day of the month after the cessation of the discharge. Permittee shall monitor for the following constituents:

Parameter	Benchmark
Total Suspended Solids	100 mg/L
pH – Units	6.5 – 9.0 Standard Units
Oil & Grease	10 mg/L
Settleable Solids	1.0 mL/L/hr

2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
   (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
      (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
      (2) controls any pollutant not limited in the permit.
   (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
   (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

   The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

3. All outfalls must be clearly marked in the field.

4. Changes in Discharges of Toxic Substances

   The permittee shall notify the Director as soon as it knows or has reason to believe:
   (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
      (1) One hundred micrograms per liter (100 µg/L);
      (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
      (4) The level established in Part A of the permit by the Director.
   (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
   (c) That the effluent limit established in part A of the permit will be exceeded.

5. Report as no-discharge when a discharge does not occur during the report period.

6. Water Quality Standards
   (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
   (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

      (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
      (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
      (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
      (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;

C. SPECIAL CONDITIONS (continued)

(5) There shall be no significant human health hazard from incidental contact with the water;
(6) There shall be no acute toxicity to livestock or wildlife watering;
(7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
(8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

(a) An assessment of all storm water discharges associated with this facility. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
(b) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water.
(c) The SWPPP must include a schedule for monthly site inspections and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. The Department must be notified within fifteen (15) days by letter of any corrections of deficiencies. Deficiencies that consist of minor repairs or maintenance must be corrected within seven (7) days. Deficiencies that require additional time or installation of a treatment device to correct should be detailed in the written notification. Installation of a treatment device, such as an oil water separator, may require a construction permit. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
(d) A provision for designating an individual to be responsible for environmental matters.
(e) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.

8. Permittee shall adhere to the following minimum Best Management Practices:
(a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
(b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
(c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
(d) Provide good housekeeping practices on the site to keep solid waste from entry into waters of the state.
(e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.

9. The purpose of the SWPPP and the BMPs listed therein is to prevent pollutants from entering waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR20-2.010(56)] of waters of the state, or failed to achieve compliance with benchmarks. Corrective action means the facility took steps to eliminate the deficiency.

10. This permit does not authorize the discharge of spilled materials or petroleum products drained from any equipment (transformers, trucks, cars, bulldozers, motorcycles, etc.). All spills must be **cleaned up** within 24 hours or as soon as possible, and a written report of the incident supplied with the facility's Discharge Monitoring Report. The following spills must be **reported** to the department at the earliest practicable moment, but no greater than 24 hours after the spill occurs:
(a) Any spill, of any material, that leaves the property of the facility;
(b) Any spill, of any material outside of secondary containment and exposed to precipitation, greater than 25 gallons or equivalent volume of solid material.

C. SPECIAL CONDITIONS (continued)

The department may require the submittal of a written report detailing measures taken to clean up the spill within 5 days of the spill. Whether the written report is submitted with the Discharge Monitoring Report or required to be submitted within 5 days, it must include the type of material spilled, volume, date of spill, date clean-up completed, clean-up method, and final disposal method. If the spill occurs outside of normal business hours, or if the permit holder cannot reach regional office staff for any reason, the permit holder is instructed to report the spill to the department's 24 hour Environmental Emergency Response hotline at (573) 634-2436. Leaving a message on a department staff member voice-mail does not satisfy this reporting requirement. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the Noncompliance Reporting requirement found in Standard Conditions Part I.

Federal Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

11. This permit does not authorize the discharge of waters other than storm waters. It does not authorize discharges of domestic, cooling water or process wastewaters.

12. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.

13. Once a month on workdays, the tank system shall be visually inspected to identify problem areas that could lead to a leak. Identified problems should be repaired immediately. Areas to inspect include tank foundations, connections, coatings, tank walls, and the piping system for corrosion, leaks, or other physical damage that may weaken the tank system. A log of such inspections and findings shall be kept on-site for a period of five years and made available to staff of the Department of Natural Resources for viewing upon request.

14. Wastewater Irrigation System.
    a. Discharge Reporting. Any unauthorized discharge from the lagoon or irrigation system shall be reported to the department as soon as possible but always within 24 hours. Discharge is allowed only as described in the Facility Description and Effluent Limitations sections of this permit.

    b. Irrigation Design. Permittee shall operate the land application system in accordance with the design parameters listed in the Facility Description section of this permit:

        (1) No-Discharge System. When the Facility Description is "No-Discharge", wastewater must be stored and irrigated at appropriate times. There shall be no-discharge from the irrigation site or storage lagoon except due to precipitation exceeding either the 1-in-10 year rainfall event for the design storage period or the 25-year-24-hour rainfall event.

    c. Emergency Spillway. Lagoons and earthen storage basins should have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm. The department may waive the requirement for overflow structures on small existing basins.

    d. General Irrigation Requirements. The wastewater irrigation system shall be operated so as to provide uniform distribution of irrigated wastewater over the entire irrigation site. A complete ground cover of vegetation shall be maintained on the irrigation site unless the system is approved for row crop irrigation. Wastewater shall be land applied only during daylight hours. The wastewater irrigation system shall be capable of irrigating the annual design flow during an application period of less than 100 days or 800 hours per year.

    e. Saturated/Frozen Conditions. There shall be no irrigation during frozen, snow covered, or saturated soil conditions.

    f. Buffer Zones. There shall be no irrigation within 300 feet of any down gradient pond, lake, sinkhole, losing stream or water supply withdrawal; 100 feet of gaining streams or tributaries; 150 feet of dwelling; or 50 feet of the property line.

    g. Public Access Restrictions. Public access shall not be allowed to the irrigation site(s).

    h. Equipment Checks during Irrigation. The irrigation system and application site shall be visually inspected at once/day during wastewater irrigation to check for equipment malfunctions and runoff from the irrigation site.

Missouri Department of Natural Resources
FACT SHEET
FOR THE PURPOSE OF INITIAL ISSUANCE
OF
MO0136883
COASTAL ENERGY CORPORATION

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Major ☐, Minor ☐, Industrial Facility ☒; Variance ☐;
Master General Permit ☐; General Permit Covered Facility ☐; and/or permit with widespread public interest ☐.

Part I – Facility Information

Facility Type: IND
Facility SIC Code(s): 2951

Facility Description:
Stormwater from Fuel Storage Secondary Containment and /Land Application
Design flow is less than 1 MGD.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

☒, - No.

Application Date: 09-28-2011
Expiration Date: N/A
Last Inspection: N/A In Compliance ☐; Non-Compliance ☐

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
001	Varies	No-Discharge	Stormwater	0.58
002	Varies	No-Discharge	Stormwater	0.58

Outfall #001 & #002
Legal Description: E ½, Sec. 32, T27N, R9W, Howell County
UTM Coordinates: 001: X=593240, Y=4092680 002:X=593436, Y=4092513

Receiving Stream: Eleven Point River (U)
First Classified Stream and ID: Eleven Point River (C) 2604
USGS Basin & Sub-watershed No.: (11010011-0101)

Receiving Water Body's Water Quality & Facility Performance History:

Facility sits on the headwaters of the Eleven Point River, as such, facility is not permitted to discharge and is not eligible for applicable general permits.

Comments:
Outfall 002 is a valve within the bermed area that discharges to the Eleven Point River. Discharge from this valve is not permitted except for the storm events specified in the permit. All collected stormwater is pumped and sprayed on field south of the property.

Part II – Operator Certification Requirements

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable ☒; This facility is not required to have a certified operator.

Part III – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:
As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]: ☐
- Lake or Reservoir [10 CSR 20-7.015(3)]: ☐
- Losing [10 CSR 20-7.015(4)]: ☐
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]: ☐
- Special Stream [10 CSR 20-7.015(6)]: ☒
- Subsurface Water [10 CSR 20-7.015(7)]: ☐
- All Other Waters [10 CSR 20-7.015(8)]: ☐

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	EDU**
Eleven Point River	U	-	General, Losing	11010011-0101	Ozark/ Black/ Current
Eleven Point River	C	2604	AQL, CLF, LWW, WBC(B)		

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).
** - Ecological Drainage Unit

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Eleven Point River (U)	0	0	0

MIXING CONSIDERATIONS TABLE:
Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].
Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:
As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable ☒;
The facility utilizes no discharge land application.

ANTI-BACKSLIDING:
A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

☒ - New facility, backsliding does not apply.

ANTIDEGRADATION:
In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

☒ - New and/or expanded discharge, please see **APPENDIX #1 – ANTIDEGRADATION ANALYSIS**

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:
As per [10 CSR 20-6.010(3)(B)], …An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:
Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: http://dnr.mo.gov/env/wpp/pub/index.html, items WQ422 through WQ449.

☒ Not applicable;
This condition is not applicable to the permittee for this facility.

COMPLIANCE AND ENFORCEMENT:
Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ☒;
The permittee/facility is not currently under Water Protection Program enforcement action.

PRETREATMENT PROGRAM:
The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

Not Applicable ☒;
The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

REASONABLE POTENTIAL ANALYSIS (RPA):
Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Not Applicable ☒;
A RPA was not conducted for this facility.

REMOVAL EFFICIENCY:
Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD_5) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

Not Applicable ☒;
Influent monitoring is not being required to determine percent removal.

SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):
Sanitary Sewer Overflows (SSOs) are defined as an untreated or partially treated sewage release are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSO's have a variety of causes including blockages, line breaks, and sewer defects that allow excess storm water and ground water to (1) enter and overload the collection system, and (2) overload the treatment facility. Additionally, SSO's can be also be caused by lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations.

Additionally, Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

☒ - Not applicable. This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

SCHEDULE OF COMPLIANCE (SOC):
A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ☒;
This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities: (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable ☒;
A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

VARIANCE:
As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable ☒;
This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:
As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable ☒;
Wasteload allocations were not calculated.

WLA MODELING:
There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable ☒;
A WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARDS:
Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:
A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Applicable ☐;
Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(3)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§§644.051.3

requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc…); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by all facilities meeting the following criteria:

Not Applicable ☒;
At this time, the permittee is not required to conduct WET test for this facility.

40 CFR 122.41(M) - BYPASSES:
The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass, which includes blending, is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

☒ - Not Applicable, this facility does not bypass.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):
Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ☒;
This facility does not discharge to a 303(d) listed stream.

Part V – Effluent Limits Determination

Outfall #001 and #002
Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

EFFLUENT LIMITATIONS TABLE:

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Rainfall	Inches	9	*				
Volume Pumped	Gallons	9	*				
Ethylbenzene	mg/L	2	0.32		0.32		
Oil and Grease	mg/L	2	15		10		
Total Petroleum Hydrocarbons	mg/L		10		10		
pH - Units	SU	2	6.5-9.0		6.5-9.0		
Ethanol	mg/L	9	*		*		
Volume Irrigated	gallons	9	*				
Application Area	acres	9	*				
Application Rate	inches/ acre	9	*				

* - Monitoring requirement only.
** - For DO the Daily Maximum is a Daily Minimum and the Monthly Average is a Monthly Average Minimum.

*** - # of colonies/100mL; the Monthly [illegible]age for *E. coli* is a geometric mean.
**** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

1. State or Federal Regulation/Law
2. Water Quality Standard (includes RPA)
3. Water Quality Based Effluent Limits
4. Lagoon Policy
5. Ammonia Policy
6. Antidegradation Review
7. Antidegradation Policy
8. Water Quality Model
9. Best Professional Judgment
10. TMDL or Permit in lieu of TMDL
11. WET Test Policy

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- **Ethylbenzene, Oil and Grease, Total Petroleum Hydrocarbons, pH**. Parameters are consistent with the effluent parameters found in the General Operating Permit for Fuel Storage.

- **Rainfall, Volume Irrigated, Volume Pumped, Irrigation Area. No-Discharge Facility.** Necessary parameters to determine compliance with No-Discharge Requirements in 10 CSR 20-6.015.

PART VI: Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

☒ Not Applicable;
The Department is not required to determine findings of affordability because the facility is not a **combined or separate sanitary sewer system for a publically-owned treatment works.**

Part VII – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE:
The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

DATE OF FACT SHEET: JANUARY 19, 2012

COMPLETED BY:

TIM SOUTHARDS
ENVIRONMENTAL ENGINEER
MISSOURI DEPARTMENT OF NATURAL RESOURCES
SOUTHEAST REGIONAL OFFICE
(573)840-9750

Part VII – Appendices

Appendix 1: Antidegradation Evaluation

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

NO DEGRADATION EVALUATION
CONCLUSION OF ANTIDEGRADATION REVIEW

(Submit this form with the appropriate Permit Application)

1. FACILITY

NAME			COUNTY	
Coastal Energy Corporation			Howell	
ADDRESS (PHYSICAL)	CITY		STATE	ZIP CODE
1 Coastal Drive	Willow Springs		MO	65793
FACILITY CONTACT:			TELEPHONE NUMBER WITH AREA CODE	
Jeff Cunningham			417-469-2777	

2. NO DEGRADATION OPTIONS

- ☐ Renewal without changes
- ☐ Sewer extensions
- ☐ CSO elimination projects
- ☑ No-discharge with land application
- ☐ No-discharge with subsurface irrigation
- ☐ Recycle or reuse of effluent
- ☐ Discharge to a regional wastewater collection and treatment system.
- ☐ Addition or replacement of disinfection system for an existing wastewater facility: Ultraviolet or Ozone

  The facility will be required to meet regulatory effluent limits for bacteria.
- ☐ Addition or replacement for chlorination or dechlorination disinfection system of existing facility.

  The chlorination or dechlorination disinfection treatment system design must be for total removal of Total Residual Chlorine. Therefore, the facility will be required to meet the water quality-bases effluent limits determined by the permit writer or the following water quality-bases effluent limits:

Beneficial Use of Classified Water	MDL (µg/l)	AML (µg/l)
Warm-water fishery	17	8.2
Cold-water fishery	3.3	1.6

Note: These compliance limits for Total Residual Chlorine are much less than minimum quantification level, or ML, of 0.13. The facility will be required to meet regulatory effluent limits for bacteria.

- ☐ Other, please describe: _____

Consulted with Water Protection Staff:

NAME	DATE
Tim Southers	09/19/2011

3. NO DEGRADATION PROPOSED PROJECT SUMMARY

Coastal Energy Corporation has ethanol & diesel storage tanks within a concrete secondary containment structure. Since the location is in the floodplain for the Eleven Point River, the DNR Water Pollution Control Program is requiring an application for a site-specific "no-discharge" permit. Any storm water collected with the secondary containment structure will be examined to ensure that there are no visible contaminants, then pumped into a 2,000 gallon water truck which will use the water to irrigate a 40-acre hay field adjacent to and south of the property where the tanks are located. Since a 200' buffer will be maintained between the irrigated area and the river/property lines, the irrigation will be limited to the 28 acres in the center of the 40-acre field.

CONSULTANT: I have prepared or reviewed this form and all attached reports and documentation. The conclusion proposed is consistent with the Antidegradation Implementation Procedure and current state and federal regulations.

SIGNATURE	DATE
Curtis Heider	9/22/11

PRINT NAME: Curtis Heider

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
573-445-3033	heiderenv@centurytel.net

Owner: I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
David Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Continuing Authority: Continuing Authority is the permanent organization that will be responsible for the operation, maintenance and modernization of the facility. The regulatory requirement regarding continuing authority is available at www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.pdf.

I have read and reviewed the prepared documents and agree with this submittal.

SIGNATURE	DATE
David Montgomery	9-27-11

TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
417-469-2777	david@coastal-fmc.com

Return completed form with the appropriate Permit Application to:

Missouri Department of Natural Resources
Water Protection Program
Water Pollution Control Branch
P.O. Box 176
Jefferson City, MO 65102